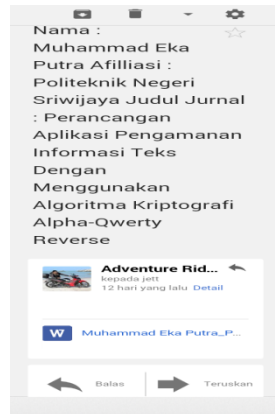


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Tanggal Kirim : 24 Mei 2017  
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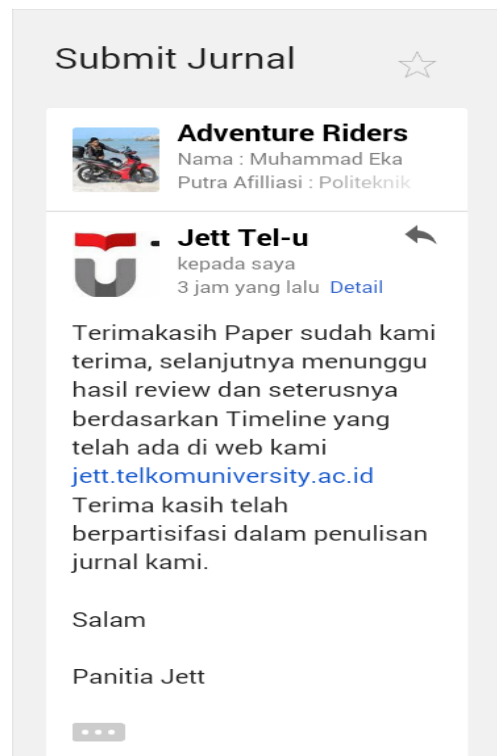
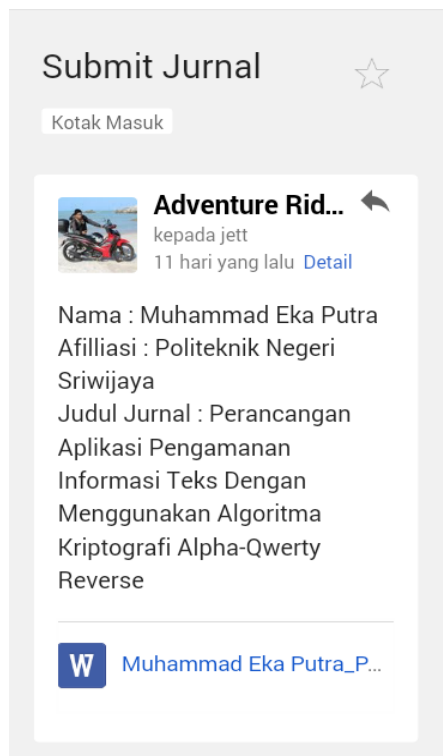
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Qwerty Reverse*

Tanggal Kirim : 5 Juni 2017

Bukti Pengiriman :



3. Nama Jurnal : ICWT

Perguruan Tinggi : ITB - POLSRI


Judul Paper : *Implementation of Vigenere Cipher 10xKey Algorithm In Short Message Service Application Based On Android*

Tanggal Kirim : Juli 2017

Bukti Pengiriman :


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# SERTIFIKAT

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Fakultas Teknik - Universitas Muria Kudus  
**SNATIF**

## ***LIST PROGRAM***

### **1. Koding XML**

#### **a. activity\_main.xml**

```
<ScrollView
xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="fill_parent"
    android:layout_height="fill_parent"
        android:background="@drawable/putra"
    android:padding="5dp">
<RelativeLayout
    android:layout_width="match_parent"
    android:layout_height="match_parent"
        android:paddingBottom="@dimen/activity_vertical_margin"
        android:paddingLeft="@dimen/activity_horizontal_margin"
        android:paddingRight="@dimen/activity_horizontal_margin"
        android:paddingTop="@dimen/activity_vertical_margin"
    tools:context=".MainActivity">

<Button
    android:id="@+id/kotakmasuk"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_alignParentTop="true"
    android:layout_centerHorizontal="true"
    android:layout_marginTop="46dp"
    android:text="Kotak Masuk"
    android:textColor="@color/white" />

<Button
    android:id="@+id/tentang"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
        android:layout_alignLeft="@+id/kotakkeluar"
        android:layout_alignRight="@+id/kotakkeluar"
        android:layout_below="@+id/kotakkeluar"
    android:layout_marginTop="81dp"
    android:text="Tentang" />

<Button
    android:id="@+id/kotakkeluar"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
        android:layout_alignRight="@+id/kotakmasuk"
        android:layout_below="@+id/kotakmasuk"
    android:layout_marginTop="71dp"
    android:text="Kotak Keluar"
```



```
        android:textColor="@color/white" />
</RelativeLayout>
</ScrollView>
```

#### b. data\_pesankeluar.xml

```
<RelativeLayout
xmlns:android="http://schemas.android.com/apk/res/android"
android:layout_width="fill_parent"
android:layout_height="fill_parent">

<TextView
    android:id="@+id/penerima"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_alignParentLeft="true"
    android:layout_alignParentTop="true"
    android:layout_marginTop="16dp"
    android:text="TextView"
    android:textColor="@color/white" />

<TextView
    android:id="@+id/waktu"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_alignParentLeft="true"
    android:layout_below="@+id/penerima"
    android:text="TextView"
    android:textColor="@color/white" />

<TextView
    android:id="@+id/isipesan"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_alignParentLeft="true"
    android:layout_below="@+id/waktu"
    android:text="TextView"
    android:textColor="@color/white" />

</RelativeLayout>
```

#### c. data\_pesanmasuk.xml

```
<RelativeLayout
xmlns:android="http://schemas.android.com/apk/res/android"
android:layout_width="fill_parent"
android:layout_height="fill_parent">

<TextView
    android:id="@+id/id"
    android:layout_width="1dp"
    android:layout_height="wrap_content"
```

```

android:layout_alignParentLeft="true"
android:layout_alignParentTop="true"
android:layout_marginTop="16dp"
android:text="TextView"
    android:textColor="@color/white"
android:visibility="invisible"/>
<TextView
    android:id="@+id/pengirim"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_alignParentLeft="true"
    android:layout_alignParentTop="true"
    android:layout_marginTop="16dp"
    android:text="TextView"
    android:textColor="@color/white" />

<TextView
    android:id="@+id/waktu"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_alignParentLeft="true"
    android:layout_below="@+id/pengirim"
    android:text="TextView"
    android:textColor="@color/white" />

<TextView
    android:id="@+id/isipesan"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_alignParentLeft="true"
    android:layout_below="@+id/waktu"
    android:text="TextView"
    android:textColor="@color/white" />

</RelativeLayout>

```

#### d. halamandepan.xml

```

<RelativeLayout
    xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="fill_parent"
    android:layout_height="fill_parent"
    android:background="@drawable/eka">

    <ImageView
        android:id="@+id/imageView1"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_centerHorizontal="true"
        android:layout_centerVertical="true"
        android:src="@drawable/p" />

</RelativeLayout>

```

e. kotak\_keluar.xml

```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout
xmlns:android="http://schemas.android.com/apk/res/android"
android:layout_width="fill_parent"
android:layout_height="fill_parent"
    android:background="@drawable/putra">

<ListView
    android:id="@+id/listView"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_alignParentLeft="true"
    android:layout_alignParentTop="true">
</ListView>

<Button
    android:id="@+id/tulispesan"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_alignParentBottom="true"
    android:layout_alignParentRight="true"
    android:layout_marginBottom="40dp"
    android:layout_marginRight="28dp"
    android:textColor="@color/white"
    android:text="Tulis Pesan" />

</RelativeLayout>
```

f. kotak\_masuk.xml

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout
xmlns:android="http://schemas.android.com/apk/res/android"
android:layout_width="match_parent"
android:layout_height="match_parent"
    android:orientation="vertical">

<ListView
    android:id="@+id/listView"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:background="@drawable/putra">

</ListView>

</LinearLayout>
```

g. lihat\_pesan.xml

```

<ScrollView
xmlns:android="http://schemas.android.com/apk/res/android"
android:layout_width="fill_parent"
android:layout_height="fill_parent"
    android:background="@drawable/putra"
android:padding="5dp">

<RelativeLayout
android:layout_width="fill_parent"
android:layout_height="431dp">

<TextView
    android:id="@+id/textView3"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
    android:layout_alignLeft="@+id/editText1"
    android:layout_below="@+id/editText1"
android:layout_marginTop="10dp"
android:text="Pesan"
android:textAppearance="?android:attr/textAppearanceMedium"
    android:textColor="@color/white" />
    <EditText
        android:id="@+id/editText2"
android:layout_width="match_parent"
android:layout_height="wrap_content"
            android:layout_alignLeft="@+id/textView3"
            android:layout_below="@+id/textView3"
android:ems="10"
            android:textColor="@color/white"
android:editable="false"
android:focusable="false" />
        <TextView
            android:id="@+id/textView4"
android:layout_width="match_parent"
android:layout_height="wrap_content"
                android:layout_alignLeft="@+id/editText2"
                android:layout_below="@+id/editText2"
android:layout_marginTop="16dp"
            android:text="Key"
android:textAppearance="?android:attr/textAppearanceMedium"
            android:textColor="@color/white" />
            <EditText
                android:id="@+id/editText3"
android:layout_width="match_parent"
android:layout_height="wrap_content"
                    android:layout_alignLeft="@+id/textView4"
                    android:layout_below="@+id/textView4"
android:ems="10"
                    android:textColor="@color/white" />

            <TextView
                android:id="@+id/textView5"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
                    android:layout_alignLeft="@+id/editText3"
                    android:layout_below="@+id/editText3"

```

```

android:layout_marginTop="80dp"
android:text="Plaintext"
android:textAppearance="?android:attr/textAppearanceMedium"
    android:textColor="@color/white" />

<Button
    android:id="@+id/hapus"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_alignParentBottom="true"
    android:layout_alignParentRight="true"
    android:layout_marginRight="37dp"
    android:text="Hapus Pesan" />

<Button
    android:id="@+id/btFrd"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_alignParentBottom="true"
    android:layout_marginRight="20dp"
    android:layout_toLeftOf="@+id/hapus"
    android:text="Teruskan" />

<EditText
    android:id="@+id/editText4"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_alignParentLeft="true"
    android:layout_below="@+id/textView5"
    android:layout_marginTop="31dp"
    android:ems="10"
    android:textColor="@color/white">

<requestFocus />
</EditText>

<TextView
    android:id="@+id/timer"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_below="@+id/editText3"
    android:text="TextView" />

<Button
    android:id="@+id/button1"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_alignBottom="@+id/textView5"
    android:layout_alignParentLeft="true"
    android:layout_marginBottom="20dp"
    android:text="Dekripsi"
    android:textColor="@color/white" />

</RelativeLayout>
</ScrollView>

```

#### h. tentang.xml

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout
xmlns:android="http://schemas.android.com/apk/res/android"
android:layout_width="match_parent"
android:layout_height="match_parent"
android:orientation="vertical">

<RelativeLayout
android:layout_width="match_parent"
android:layout_height="wrap_content"
android:layout_weight="0.97"
    android:background="@drawable/tentang">

<ImageView
    android:id="@+id/imageView1"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_alignParentTop="true"
android:layout_centerHorizontal="true"
android:layout_marginTop="20dp"
    android:src="@drawable/launcher" />

<ImageView
    android:id="@+id/imageView2"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_alignParentBottom="true"
android:layout_alignParentLeft="true"
android:layout_marginBottom="29dp"
    android:src="@drawable/polsri" />

<ImageView
    android:id="@+id/imageView3"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_alignParentBottom="true"
android:layout_alignParentRight="true"
    android:src="@drawable/telkom" />

</RelativeLayout>

</LinearLayout>
```

#### i. tulispesan\_enkripsi.xml

```
<ScrollView
xmlns:android="http://schemas.android.com/apk/res/android"
android:layout_width="fill_parent"
android:layout_height="fill_parent"
    android:background="@drawable/putra"
android:padding="5dp">
```

```

<RelativeLayout
    android:layout_width="fill_parent"
    android:layout_height="528dp">

    <TextView
        android:id="@+id/textView1"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignParentLeft="true"
        android:layout_alignParentTop="true"
        android:layout_marginLeft="27dp"
        android:layout_marginTop="24dp" />

    <TextView
        android:id="@+id/textView2"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignLeft="@+id/textView1"
        android:layout_alignTop="@+id/textView1"
        android:text="Ke"
        android:textAppearance="?android:attr/textAppearanceMedium"
        android:textColor="@color/white" />

    <EditText
        android:id="@+id/editText1"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_alignLeft="@+id/textView1"
        android:layout_below="@+id/textView2"
        android:ems="10"
        android:inputType="phone"
        android:textColor="@color/white">

    <requestFocus />
</EditText>

    <TextView
        android:id="@+id/textView3"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignLeft="@+id/editText1"
        android:layout_below="@+id/editText1"
        android:layout_marginTop="25dp"
        android:text="Pesan (Plaintext)"
        android:textAppearance="?android:attr/textAppearanceMedium"
        android:textColor="@color/white" />

    <EditText
        android:id="@+id/editText2"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_alignLeft="@+id/textView3"
        android:layout_below="@+id/textView3"
        android:ems="10"
        android:textColor="@color/white" />

```



```

<TextView
    android:id="@+id/textView4"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
        android:layout_alignLeft="@+id/editText2"
        android:layout_below="@+id/editText2"
    android:layout_marginTop="16dp"
    android:text="Key"
    android:textAppearance="?android:attr/textAppearanceMedium"
        android:textColor="@color/white" />

<EditText
    android:id="@+id/editText3"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
        android:layout_alignLeft="@+id/textView4"
        android:layout_below="@+id/textView4"
    android:ems="10"
    android:textColor="@color/white" />

<EditText
    android:id="@+id/editText4"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
        android:layout_alignLeft="@+id/textView5"
        android:layout_below="@+id/textView5"
    android:ems="10"
    android:textColor="@color/white" />

<TextView
    android:id="@+id/textView5"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
        android:layout_alignLeft="@+id/editText3"
        android:layout_below="@+id/editText3"
    android:layout_marginTop="80dp"
    android:text="Ciphertext"
    android:textAppearance="?android:attr/textAppearanceMedium"
        android:textColor="@color/white" />

<Button
    android:id="@+id/button1"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
        android:layout_alignRight="@+id/textView5"
        android:layout_below="@+id/editText3"
    android:layout_marginTop="18dp"
    android:text="Enkripsi"
    android:textColor="@color/white" />

<Button
    android:id="@+id/button2"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_alignParentBottom="true"

```

```

android:layout_alignParentRight="true"
android:layout_marginRight="27dp"
android:text="Kirim"
        android:textColor="@color/white" />

<TextView
        android:id="@+id/timer"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
        android:layout_alignLeft="@+id/editText3"
        android:layout_below="@+id/editText3"
android:text="TextView" />

</RelativeLayout>
</ScrollView>

```

#### j. AndroidManifest.xml

```

<?xml version="1.0" encoding="utf-8"?>
<manifest
xmlns:android="http://schemas.android.com/apk/res/android"
package="com.example.sms"
android:versionCode="1"
android:versionName="1.0" >

<uses-permission android:name="android.permission.SEND_SMS" />
    <uses-permission android:name="android.permission.READ_SMS"
/>
    <uses-permission android:name="android.permission.WRITE_SMS"
/>
    <uses-permission
android:name="android.permission.RECEIVE_SMS" />
    <uses-permission
android:name="android.permission.READ_CONTACTS" />

<uses-sdk android:minSdkVersion="11" />

<application
android:allowBackup="true"
        android:icon="@drawable/launcher"
        android:label="@string/app_name"
        android:theme="@style/AppTheme" >

<activity
android:name="com.example.sms.halaman_depan"
        android:label="@string/app_name" >
<intent-filter>
<action android:name="android.intent.action.MAIN" />
<category android:name="android.intent.category.LAUNCHER" />
</intent-filter>
</activity>

<activity android:name="kotak_keluar"></activity>
<activity android:name="tuliskan_pesan"></activity>

```

```
<activity android:name="MainActivity"></activity>
<activity android:name="kotak_masuk"></activity>
<activity android:name="lihat_Pesan"></activity>
<activity android:name="tentang"></activity>
</application>

</manifest>
```

## 2. Koding Java

### a. Dialogs.java

```
package com.example.sms;

import android.app.AlertDialog;
import android.content.Context;
import android.content.DialogInterface;
import android.content.DialogInterface.OnClickListener;

public class Dialogs {

    public static void showConfirmation(Context context, int message,
        OnClickListener onYes) {
        AlertDialog.Builder alertDialogBuilder = new AlertDialog.Builder(
context);

        // set title
        alertDialogBuilder.setTitle(R.string.confirmation);

        // set dialog message
        alertDialogBuilder
            .setMessage(message)
            .setCancelable(false)
            .setPositiveButton("Ya", onYes)
            .setNegativeButton("Tidak",
new DialogInterface.OnClickListener() {
public void onClick(DialogInterface dialog, int id) {
dialog.cancel();
            }
        });

        // create alert dialog
        AlertDialog alertDialog = alertDialogBuilder.create();

        // show it
        alertDialog.show();
    }
}
```

### b. halaman\_depan.java

```
package com.example.sms;

import android.app.Activity;
import android.content.Intent;
import android.os.Bundle;
import android.os.CountDownTimer;
import android.widget.ImageView;

public class halaman_depan extends Activity {
    ImageView logol;
```

```

        CountdownTimer timer_splash;

        @Override
        protected void onCreate(Bundle savedInstanceState) {
            super.onCreate(savedInstanceState);
            setContentView(R.layout.halamandepan);
            timer_splash = new CountdownTimer(3000,1000) {

                @Override
                public void onTick(long millisUntilFinished) {
                    // TODO Auto-generated method stub

                }

                @Override
                public void onFinish() {
                    // TODO Auto-generated method stub
                    Intent pindah = new
Intent(halaman_depan.this,MainActivity.class);
                    startActivity(pindah);
                }
            };

            timer_splash.start();
        }
    }
}

```

### c. kotak\_keluar.java

```

package com.example.sms;

import java.text.SimpleDateFormat;
import java.util.Calendar;
import java.util.Date;

import android.annotation.SuppressLint;
import android.app.Activity;
import android.content.Intent;
import android.database.Cursor;
import android.net.Uri;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.ListView;
import android.widget.SimpleCursorAdapter;
import android.widget.TextView;

public class kotak_keluar extends Activity {

    private SimpleCursorAdapter dataAdapter;

    @Override
    protected void onCreate(Bundle savedInstanceState) {

```

```

        super.onCreate(savedInstanceState);
        setContentView(R.layout.kotak_keluar);

        Button tulispesan = (Button) findViewById(R.id.tulispesan);

        //untuk masuk ke Tulis Pesan
        tulispesan.setOnClickListener(new View.OnClickListener() {

            @Override
            public void onClick(View arg0) {
                // TODO Auto-generated method stub
                Intent pindah = new
Intent(kotak_keluar.this,tulis_pesan.class);
                startActivity(pindah);
            }
        });

        Uri urisms = Uri.parse("content://sms/sent");
        Cursor cursor = getContentResolver().query(urisms, null, null, null,
null);

        String[] columns = new String[] { "address", "body", "date" };

        int[] to = new int[] { R.id.penerima, R.id.isipesan, R.id.waktu };

        dataAdapter = new SimpleCursorAdapter(this, R.layout.data_pesankeluar, cursor,
columns, to);

        dataAdapter.setViewBinder(new SimpleCursorAdapter.ViewBinder() {
        public boolean setViewValue(View view, Cursor cursor, int columnIndex) {
            if (view.getId() == R.id.waktu){
                String waktu=cursor.getString(columnIndex);
                ((TextView) view).setText(millisToDate(waktu));
            }
            return true;
        }
        return false;
        });

        ListView listView= (ListView) findViewById(R.id.listView);
        listView.setAdapter(dataAdapter);

    }

    @SuppressWarnings("SimpleDateFormat")
    private static String millisToDate(String TimeMillis) {
        String finalDate;
        long tm = Long.parseLong(TimeMillis);
        Calendar calendar = Calendar.getInstance();
        calendar.setTimeInMillis(tm);
        Date date = calendar.getTime();
    }

```

```

        SimpleDateFormat outputFormat = new SimpleDateFormat("dd MMMM yyyy
HH:mm:ss");
finalDate = outputFormat.format(date);
return finalDate;
    }
}

```

#### d. kotak\_masuk.java

```

package com.example.sms;

import java.text.SimpleDateFormat;
import java.util.Calendar;
import java.util.Date;

import android.annotation.SuppressLint;
import android.app.Activity;
import android.content.Intent;
import android.content.SharedPreferences;
import android.database.Cursor;
import android.net.Uri;
import android.os.Bundle;
import android.view.View;
import android.widget.AdapterView;
import android.widget.AdapterView.OnItemClickListener;
import android.widget.AdapterView.OnItemSelectedListener;
import android.widget.CursorAdapter;
import android.widget.CursorAdapter.ViewBinder;
import android.widget.TextView;

public class kotak_masuk extends Activity{

    private SimpleCursorAdapter dataAdapter;

    @SuppressWarnings("SimpleDateFormat")
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.kotak_masuk);

        Uri urisms = Uri.parse("content://sms/inbox");

        Cursor cursor = getContentResolver().query(urisms, null, null, null,
null);

        String[] columns = new String[] { "_id", "address", "date", "body" };

        int[] to = new int[] { R.id.id, R.id.pengirim, R.id.waktu, R.id.isipesan };

        dataAdapter = new SimpleCursorAdapter(this, R.layout.data_peskesmasuk,
cursor, columns, to);

```



```

        dataAdapter.setViewBinder(new SimpleCursorAdapter.ViewBinder() {
public boolean setViewValue(View view, Cursor cursor, int columnIndex) {
    if (view.getId() == R.id.waktu){
        String waktu=cursor.getString(columnIndex);
        ((TextView) view).setText(millisToDate(waktu));
return true;
    }
    return false;
    }
});

    ListView listView = (ListView) findViewById(R.id.listView);
    listView.setAdapter(dataAdapter);

    //
    listView.setOnItemClickListener(new OnItemClickListener()
    {
        public void onItemClick(AdapterView<?> parent, View view, int
position, long id) {

                String idpesan =
((TextView)view.findViewById(R.id.id)).getText().toString();
                String isipesan =
((TextView)view.findViewById(R.id.isipesan)).getText().toString();
                String waktu =
((TextView)view.findViewById(R.id.waktu)).getText().toString();
                String pengirim =
((TextView)view.findViewById(R.id.pengirim)).getText().toString();

                Intent pindah = new Intent(kotak_masuk.this,
lihat_Pesan.class);
                pindah.putExtra("idpesan", idpesan);
                pindah.putExtra("isipesan", isipesan);
                pindah.putExtra("waktu", waktu);
                pindah.putExtra("pengirim", pengirim);
                startActivity(pindah);

        }
    });
    //

}

@SuppressLint("SimpleDateFormat")
private static String millisToDate(String TimeMillis) {
    String finalDate;
long tm = Long.parseLong(TimeMillis);
    Calendar calendar = Calendar.getInstance();
    calendar.setTimeInMillis(tm);
    Date date = calendar.getTime();

```

```

        SimpleDateFormat outputFormat = new SimpleDateFormat("dd MMMM yyyy
HH:mm:ss");
finalDate = outputFormat.format(date);
return finalDate;
    }
}

```

### e. lihat\_Pesan.java

```

package com.example.sms;

import android.app.Activity;
import android.content.DialogInterface;
import android.content.Intent;
import android.net.Uri;
import android.os.Bundle;
import android.view.View;
import android.view.View.OnClickListener;
import android.webkit.WebView;
import android.widget.Button;
import android.widget.TextView;
import android.widget.Toast;

public class lihat_Pesan extends Activity {
    TextView number, date, msg, teks_pesan, password, hasil, timer;
    Button forward, hapus, dekripsi;
    String isipesan, waktu, pengirim, idpesan;

    WebView web1;
    String
str, baris1, baris2, baris3, baris4, baris5, baris6, chipper, chippertext, alphabet, alpha
bet2;
    String keyboard1, keyboard2, keyboard3, keyboard4, keyboard5, keyboard6;
    String[] subbaris1, subbaris2, subbaris3, subbaris4, subbaris5, subbaris6;

    int mod, jlh;
    char c;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.lihat_pesan);

        Intent i = getIntent();
        idpesan=i.getStringExtra("idpesan");
        isipesan=i.getStringExtra("isipesan");
        waktu=i.getStringExtra("waktu");
        pengirim=i.getStringExtra("pengirim");

        teks_pesan = (TextView) findViewById(R.id.editText2);
        teks_pesan.setText(isipesan);
        timer = (TextView) findViewById(R.id.timer);
    }
}

```

```

password = (TextView) findViewById(R.id.editText3);
hasil = (TextView) findViewById(R.id.editText4);
forward = (Button) findViewById(R.id.btFrd);
hapus = (Button) findViewById(R.id.hapus);
dekripsi = (Button) findViewById(R.id.button1);

dekripsi.setOnClickListener(new View.OnClickListener() {

    @Override
    public void onClick(View arg0) {

        long tStart = System.currentTimeMillis();
        String karakter=teks_pesan.getText().toString();
        String keyword=password.getText().toString();
        int nkey=keyword.length();

        if(karakter.length()>0 && nkey>0)
        {
            chipper="";
            chippertext="";
            String tampilan;
            for(int i=0;i<karakter.length();i++)
            {
                //----plaintext
                c=karakter.charAt(i);
                alphabet=Character.toString(c);

                //----kunci
                mod=i%nkey;
                c=keyword.charAt(mod);
                alphabet2=Character.toString(c);

                //-----penjumlahan

                jlh=Integer.parseInt(inisial_vigenere_posisi(alphabet))-
Integer.parseInt(inisial_qwerty_posisi(alphabet2));
                jlh+=93;
                jlh=jlh%93;

                chipper=urutan_qwerty(Integer.toString(jlh));

                //-----looping sebanyak 5 kali lagi
                for(int a=0;a<5;a++)
                {
                    //----plaintext
                    alphabet=chipper;

                    //----kunci

                    //-----penjumlahan

                    jlh=Integer.parseInt(inisial_vigenere_posisi(alphabet))-
Integer.parseInt(inisial_vigenere_posisi(alphabet2));
                    jlh+=93;
                    jlh=jlh%93;

```

```

chipper=urutan_vigenere(Integer.toString(jlh));

        }

        chippertext+=chipper;
        //Toast.makeText(getApplicationContext(),
"karakter ke-"+i+" : "+alphabet, Toast.LENGTH_SHORT).show();

        }

        hasil.setText(chippertext);
    }
    else
    {Toast.makeText(getApplicationContext(), "Plaintext dan
Kunci tidak boleh kosong!", Toast.LENGTH_SHORT).show();}

    long tEnd = System.currentTimeMillis();
    long tDelta = tEnd - tStart;
    double elapsedSeconds = tDelta / 1000.0;

    timer.setText(String.valueOf(elapsedSeconds));
}
});

forward.setOnClickListener(new OnClickListener() {

    @Override
public void onClick(View v) {
        Intent click = new Intent(lihat_Pesan.this, tulis_pesan.class);
click.putExtra("isipesan", isipesan);
startActivity(click);

    }
});
hapus.setOnClickListener(new OnClickListener() {
    @Override
public void onClick(View v) {
Dialogs.showConfirmation(lihat_Pesan.this,
        R.string.hapuspesan_dialog,
new DialogInterface.OnClickListener() {

public void onClick(DialogInterface dialog,
int which) {
        /*

                Intent i = getIntent();
                String id_pesan_hapus = i
                    .getStringExtra("idpesan");
                String id_thread_hapus = i
                    .getStringExtra("idthread");
                */

                // hapus pesan

```

```

        Uri deleteUri =
Uri.parse("content://sms/"+idpesan);

getContentResolver().delete(deleteUri,null,null);
finish();

Toast.makeText(lihat_Pesan.this,"Pesan Terhapus", Toast.LENGTH_SHORT).show();

        // redirect data pesan
onBackPressed();
    }
    });
}

}

//kelas tambahan_inisialisasi karakter
public String inisial_vigenere_posisi(String karakter)
{
    String abjad =
"abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ0123456789'~!@#$$%^&*()_-
=+{}[]|;:\"<>,.?/ ";
    int posisi = abjad.indexOf(karakter);
    if (karakter.equals(null)){return"";}
    return Integer.toString(posisi);
}

public String urutan_vigenere(String nomor)
{
    String abjad =
"abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ0123456789'~!@#$$%^&*()_-
=+{}[]|;:\"<>,.?/ ";
    String karakter =
abjad.substring(Integer.parseInt(nomor),Integer.parseInt(nomor)+1);
    return karakter;
}

public String inisial_qwerty_posisi(String karakter)
{
    String abjad =
"qwertyuiopasdfghjklzxcvbnmQWERTYUIOPASDFGHJKLZXCVBNM'~!@#$$%^&*()_-
=+{}[]|;:\"<>,.?/0123456789 ";
    int posisi = abjad.indexOf(karakter);
    if (karakter.equals(null)){return"";}
    return Integer.toString(posisi);
}

public String urutan_qwerty(String nomor)
{

```

```

        String abjad =
"qwertyuiopasdfghjklzxcvbnmQWERTYUIOPASDFGHJKLZXCVBNM'~!@#$$%^&*()_-
=+{ } [ ] | ; : \ " < > , . ? / 0 1 2 3 4 5 6 7 8 9 ";
        String karakter = abjad.substring(Integer.parseInt(nomor),
Integer.parseInt(nomor)+1);
        return karakter;
    }
}

```

## f. ListViewAdaptor.java

```

package com.example.sms;

import android.app.Activity;
import android.view.LayoutInflater;
import android.view.View;
import android.view.ViewGroup;
import android.widget.BaseAdapter;
import android.widget.TextView;

public class ListViewAdaptor extends BaseAdapter {
    Activity context;
    String nomor[];
    String pesan[];

    public ListViewAdaptor(Activity context, String[] nomor, String[] pesan) {
        super();
        this.context = context;
        this.nomor = nomor;
        this.pesan = pesan;
    }

    public int getCount() {
        // TODO Auto-generated method stub
        return nomor.length;
    }

    public Object getItem(int position) {
        // TODO Auto-generated method stub
        return null;
    }

    public long getItemId(int position) {
        // TODO Auto-generated method stub
        return 0;
    }

    private class ViewHolder {
        TextView txtNomor;
        TextView txtIsiPesan;
    }

    public View getView(int position, View convertView, ViewGroup parent)

```

```

    {
        // TODO Auto-generated method stub
        ViewHolder holder;
        LayoutInflater inflater = context.getLayoutInflater();

        if (convertView == null)
        {
            convertView = inflater.inflate(R.layout.data_pesankeluar,
null);
            holder = new ViewHolder();
            holder.txtNomor = (TextView)
convertView.findViewById(R.id.penerima);
            holder.txtIsiPesan = (TextView)
convertView.findViewById(R.id.isipesan);
            convertView.setTag(holder);
        }
        else
        {
            holder = (ViewHolder) convertView.getTag();
        }

        holder.txtNomor.setText(nomor[position]);
        holder.txtIsiPesan.setText(pesan[position]);

        return convertView;
    }
}

```

#### g. MainActivity.java

```

package com.example.sms;

import android.os.Bundle;
import android.app.Activity;
import android.content.Intent;
import android.view.Menu;
import android.view.View;
import android.widget.Button;

public class MainActivity extends Activity {

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);

        Button kotakkeluar = (Button) findViewById(R.id.kotakkeluar);
        Button kotakmasuk = (Button) findViewById(R.id.kotakmasuk);
        Button about = (Button) findViewById(R.id.tentang);

        //Untuk masuk ke kotak masuk dan kotak keluar
        kotakkeluar.setOnClickListener(new View.OnClickListener() {

```



```

        @Override
        public void onClick(View arg0) {
            // TODO Auto-generated method stub
            Intent pindah = new
Intent(MainActivity.this, kotak_keluar.class);
            pindah.putExtra("tipepesan", "sent");
            startActivity(pindah);
        }
    });

kotakmasuk.setOnClickListener(new View.OnClickListener() {

        @Override
        public void onClick(View arg0) {
            // TODO Auto-generated method stub
            Intent pindah = new
Intent(MainActivity.this, kotak_masuk.class);
            pindah.putExtra("tipepesan", "inbox");
            startActivity(pindah);
        }
    });

about.setOnClickListener(new View.OnClickListener() {

        @Override
        public void onClick(View arg0) {
            // TODO Auto-generated method stub
            Intent pindah = new
Intent(MainActivity.this, tentang.class);
            startActivity(pindah);
        }
    });

}

@Override
public boolean onCreateOptionsMenu(Menu menu) {
    // Inflate the menu; this adds items to the action bar if it is present.
    getMenuInflater().inflate(R.menu.main, menu);
    return true;
}
}

```

## h. tentang.java

```

package com.example.sms;

import android.app.Activity;
import android.os.Bundle;

```

```

public class tentang extends Activity {

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.tentang);}

}

```

### i. tulis\_pesana.java

```

package com.example.sms;

import android.app.Activity;
import android.content.Intent;
import android.net.Uri;
import android.os.Bundle;
import android.telephony.SmsManager;
import android.view.View;
import android.webkit.WebView;
import android.widget.Button;
import android.widget.TextView;
import android.widget.Toast;

public class tulis_pesana extends Activity{

    char b;
    int mod,jlh;
    String konversi, konversi2, plaint, key, cipher, ciphertext, isipesan;
    TextView plaintext, keytext, tampilan, nomortujuan, timer;

    WebView web1;
    String
str,baris1,baris2,baris3,baris4,baris5,baris6,chipper,chipertext,alphabet,alpha
bet2;
    String keyboard1,keyboard2,keyboard3,keyboard4,keyboard5,keyboard6;
    String[] subbaris1,subbaris2,subbaris3,subbaris4,subbaris5,subbaris6;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.tulispesan_enkripsi);

        Intent i = getIntent();
        isipesan=i.getStringExtra("isipesan");

        nomortujuan = (TextView) findViewById(R.id.editText1);
        plaintext = (TextView) findViewById(R.id.editText2);
        plaintext.setText(isipesan);
        timer = (TextView) findViewById(R.id.timer);
        keytext = (TextView) findViewById(R.id.editText3);
        tampilan = (TextView) findViewById(R.id.editText4);
        Button proses = (Button) findViewById(R.id.button1);

```

```

        Button kirim = (Button) findViewById(R.id.button2);

        proses.setOnClickListener(new View.OnClickListener() {

            @Override
            public void onClick(View arg0) {
                // TODO Auto-generated method stub

                //-----
                long tStart = System.currentTimeMillis();
                plaint=plaintext.getText().toString();
                key=keytext.getText().toString();
                int nkey=key.length();

                if(plaint.length()>0 && nkey>0)
                {
                    chipper="";
                    chippertext="";
                    for(int i=0;i<plaint.length();i++)
                    {
                        //----plaintext
                        b=plaint.charAt(i);
                        alphabet=Character.toString(b);

                        //----kunci
                        mod=i%nkey;
                        b=key.charAt(mod);
                        alphabet2=Character.toString(b);

                        //-----penjumlahan

                        jlh=Integer.parseInt(inisial_vigenere_posisi(alphabet))+Integer.parseInt(i
nisial_vigenere_posisi(alphabet2));
                        jlh=jlh%93;

                        chipper=urutan_vigenere(Integer.toString(jlh));

                        //-----looping sebanyak 4 kali lagi
                        for(int a=0;a<4;a++)
                        {
                            //----plaintext
                            alphabet=chipper;

                            //----kunci

                            //-----penjumlahan

                            jlh=Integer.parseInt(inisial_vigenere_posisi(alphabet))+Integer.parseInt(i
nisial_vigenere_posisi(alphabet2));
                            jlh=jlh%93;

                            chipper=urutan_vigenere(Integer.toString(jlh));

```

```

        }

        //---QWERTY {
        //---plaintext
        alphabet=chipper;

        //----kunci
        mod=i%nkey;

        //-----penjumlahan

        jlh=Integer.parseInt(inisial_qwerty_posisi(alphabet))+Integer.parseInt(ini
sial_qwerty_posisi(alphabet2));
        jlh=jlh%93;

        chipper=urutan_vigenere(Integer.toString(jlh));
        //-----}

        chippertext+=chipper;
        //Toast.makeText(getApplicationContext(),
"karakter ke-"+i+" : "+alphabet, Toast.LENGTH_SHORT).show();
    }

    tampilan.setText(chippertext);
}
else
{Toast.makeText(getApplicationContext(), "Plaintext dan
Kunci tidak boleh kosong!", Toast.LENGTH_SHORT).show();}

    long tEnd = System.currentTimeMillis();
    long tDelta = tEnd - tStart;
    double elapsedSeconds = tDelta / 1000.0;

    timer.setText(String.valueOf(elapsedSeconds));
    //-----}
});

    kirim.setOnClickListener(new View.OnClickListener() {

        @Override
        public void onClick(View arg0) {
            // TODO Auto-generated method stub

            /*Intent intent = new Intent(Intent.ACTION_VIEW,
Uri.parse("sms:" + nomortujuan.getText().toString()));
            intent.putExtra("sms_body",
tampilan.getText().toString());
            startActivity(intent);*/

```

```

        //-----
        try {
            SmsManager smsManager = SmsManager.getDefault();
            smsManager.sendTextMessage(nomortujuan.getText().toString(),
            null, tampilan.getText().toString(), null, null);
            Toast.makeText(getApplicationContext(), "SMS Berhasil
            Terkirim.",
                Toast.LENGTH_LONG).show();
        } catch (Exception e) {
            Toast.makeText(getApplicationContext(),
                "SMS Gagal Terkirim.",
                Toast.LENGTH_LONG).show();
            e.printStackTrace();
        }
        //-----
    }

});

//
}
//kelas tambahan_inisialisasi karakter
public String inisial_vigenere_posisi(String karakter)
{
    String abjad =
"abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ0123456789'~!@#$$%^&*()_-
=+{}[]|;:\"<>,.?/ ";
    int posisi = abjad.indexOf(karakter);
    if (karakter.equals(null)) {return"";}
    return Integer.toString(posisi);
}

public String urutan_vigenere(String nomor)
{
    String abjad =
"abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ0123456789'~!@#$$%^&*()_-
=+{}[]|;:\"<>,.?/ ";
    String karakter =
abjad.substring(Integer.parseInt(nomor), Integer.parseInt(nomor)+1);
    return karakter;
}

public String inisial_qwerty_posisi(String karakter)
{
    String abjad =
"qwertyuiopasdfghjklzxcvbnmQWERTYUIOPASDFGHJKLZXCVBNM'~!@#$$%^&*()_-
=+{}[]|;:\"<>,.?/0123456789 ";
    int posisi = abjad.indexOf(karakter);
    if (karakter.equals(null)) {return"";}
    return Integer.toString(posisi);
}

public String urutan_qwerty(String nomor)
{

```

```
        String abjad =
"qwertyuiopasdfghjklzxcvbnmQWERTYUIOPASDFGHJKLZXCVBNM'~!@#$$%^&*()_-
=+{}[]|;:\"<>,./0123456789 ";
        String karakter = abjad.substring(Integer.parseInt(nomor),
Integer.parseInt(nomor)+1);
        return karakter;
    }

protected void sendsMS (String noHP, String Pesan) {
try {
    SmsManager smsManager = SmsManager.getDefault();
    smsManager.sendTextMessage(noHP, null, Pesan, null, null);
    Toast.makeText(getApplicationContext(), "SMS Berhasil Terkirim.",
        Toast.LENGTH_LONG).show();
    } catch (Exception e) {
    Toast.makeText(getApplicationContext(),
        "SMS Gagal Terkirim.",
        Toast.LENGTH_LONG).show();
    e.printStackTrace();
    }
}}
```