

```

int j_kiri=0;
int j_depan=0;
int j_kanan=0;
int j_belakang=0;

int state = 0;
const int lasser1 = A0;
const int lasser2= A1;

int buzzerPin = 3;
const int led1 = A5;
const int led2 = A4;

//sensor 1
#define ECHOPIN 9 // Pin to receive echo
pulse
#define TRIGPIN 10 // Pin to send trigger pulse

//sensor 2
#define ECHOPIN1 4 // Pin to receive echo
pulse
#define TRIGPIN1 5 // Pin to send trigger pulse

//sensor 3
#define ECHOPIN2 6 // Pin to receive echo
pulse
#define TRIGPIN2 7 // Pin to send trigger pulse

//sensor 4
#define ECHOPIN3 11 // Pin to receive echo
pulse
#define TRIGPIN3 12 // Pin to send trigger
pulse

void sensor1(){
    digitalWrite(TRIGPIN, LOW); // Set the trigger pin to
low for 2uS
    delayMicroseconds(2);
    digitalWrite(TRIGPIN, HIGH); // Send a 10uS high to
trigger ranging
    delayMicroseconds(10);
    digitalWrite(TRIGPIN, LOW); // Send pin low again
    j_kanan = pulseIn(ECHOPIN, HIGH); // Read in times pulse

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    j_kanan= j_kanan/58; // Calculate distance from
time of pulse
    delay(100);
}

void sensor2(){
    digitalWrite(TRIGPIN1, LOW); // Set the trigger pin to
low for 2uS
    delayMicroseconds(2);
    digitalWrite(TRIGPIN1, HIGH); // Send a 10uS high to
trigger ranging
    delayMicroseconds(10);
    digitalWrite(TRIGPIN1, LOW); // Send pin low again
    j_depan = pulseIn(ECHOPIN1, HIGH); // Read in times pulse
    j_depan= j_depan/58; // Calculate distance from
time of pulse
    delay(100);
}

void sensor3(){
    digitalWrite(TRIGPIN2, LOW); // Set the trigger pin to
low for 2uS
    delayMicroseconds(2);
    digitalWrite(TRIGPIN2, HIGH); // Send a 10uS high to
trigger ranging
    delayMicroseconds(10);
    digitalWrite(TRIGPIN2, LOW); // Send pin low again
    j_kiri = pulseIn(ECHOPIN2, HIGH); // Read in times pulse
    j_kiri= j_kiri/58; // Calculate distance from time
of pulse
    delay(100);
}

void sensor4(){
    digitalWrite(TRIGPIN3, LOW); // Set the trigger pin to
low for 2uS
    delayMicroseconds(2);
    digitalWrite(TRIGPIN3, HIGH); // Send a 10uS high to
trigger ranging
    delayMicroseconds(10);
    digitalWrite(TRIGPIN3, LOW); // Send pin low again
    j_belakang = pulseIn(ECHOPIN3, HIGH); // Read in times pulse
    j_belakang= j_belakang/58; // Calculate distance
from time of pulse
    delay(100);
}

```

```

void beep(unsigned char delays)
{
    analogWrite(buzzerPin, 100);
    delay(500);
    analogWrite(buzzerPin, 0);
    delay(500);
}

void setup(){
    Serial.begin(9600);
    pinMode(buzzerPin, OUTPUT);
    pinMode(ECHOPIN, INPUT);
    pinMode(TRIGPIN, OUTPUT);
    pinMode(ECHOPIN1, INPUT);
    pinMode(TRIGPIN1, OUTPUT);
    pinMode(ECHOPIN2, INPUT);
    pinMode(TRIGPIN2, OUTPUT);
    pinMode(ECHOPIN3, INPUT);
    pinMode(TRIGPIN3, OUTPUT);
    pinMode(led1, OUTPUT);
    pinMode(led2, OUTPUT);
    pinMode(lasser1, OUTPUT);
    pinMode(lasser2, OUTPUT);
    digitalWrite(lasser1, LOW);
    digitalWrite(lasser2, LOW);
    digitalWrite(led1, HIGH);
    digitalWrite(led2, HIGH);

}

void loop(){
    sensor1();
    sensor2();
    sensor3();
    sensor4();

    //sensor 1
    //Serial.print("S1=");
    //Serial.println(j_kanan);

    //sensor 2
    //Serial.print("S2=");

```

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//Serial.println(j_depan);

//sensor 3
// Serial.print("S3=");
// Serial.println(j_kiri);

//sensor 4
//Serial.print("S4=");
// Serial.println(j_belakang);

// Serial.println("      ");
// Serial.println("      ");
//Serial.println("      ");
// Serial.println("      ");
//Serial.println("      ");

delay(500);

digitalWrite(led1, HIGH);
digitalWrite(led2, HIGH);
analogWrite(buzzerPin, 0);
if(Serial.available() > 0){ // Checks whether data is coming from the serial
port
state = Serial.read(); // Reads the data from the serial port
}

if (state == 'W') {
digitalWrite(lasser1, HIGH);
state = 0;
}

if (state == 'R') {
digitalWrite(lasser1, LOW);
state = 0;
}

if (state == 'Y') {
digitalWrite(lasser2, LOW);
state = 0;
}
if (state == 'Z') {
digitalWrite(lasser2, HIGH);
state = 0;
}
}

```

```

//-----BAGIAN PARKIR
A-----//
//PARKIR A.1
  if (j_kanan<=15 && j_depan>=16 && j_kiri>=16 && j_belakang>=16 )
  {
    delay(2000);
    digitalWrite(led1, LOW);
    Serial.println("PARKIR A : S1SALAH");
    Serial.println("                ");
    Serial.println("PARKIR B :   BENAR");
    beep(500);
    delay(100);
  }
//PARKIR A.2
  else if (j_kanan>=16 && j_depan<=15 && j_kiri>=16 && j_belakang>=16 )
  {
    delay(2000);
    digitalWrite(led1, LOW);
    Serial.println("PARKIR A : S2SALAH");
    Serial.println("                ");
    Serial.println("PARKIR B :   BENAR");
    beep(500);
    delay(100);
  }
//-----BAGIAN PARKIR
B-----//
//PARKIR B.3
  if (j_kanan>=16 && j_depan>=16 && j_kiri<=15 && j_belakang>=16 )
  {
    delay(2000);
    digitalWrite(led2, LOW);
    Serial.println("PARKIR A :   BENAR");
    Serial.println("                ");
    Serial.println("PARKIR B : S3SALAH");
    beep(500);
    delay(100);
  }
//PARKIR B.4
  else if (j_kanan>=16 && j_depan>=16 && j_kiri>=16 && j_belakang<=15 )
  {
    delay(2000);
    digitalWrite(led2, LOW);
    Serial.println("PARKIR A :   BENAR");
    Serial.println("                ");
    Serial.println("PARKIR B : S4SALAH");
    beep(500);
  }

```

```

    delay(100);
    }
//-----BAGIAN PARKIR A DAN
B-----//
//PARKIR AB.1,4
    if (j_kanan<=15 && j_depan>=16 && j_kiri>=16 && j_belakang<=15 )
    {
        delay(2000);
        digitalWrite(led1, LOW);
        digitalWrite(led2, LOW);
        Serial.println("PARKIR A : S1SALAH");
        Serial.println("                ");
        Serial.println("PARKIR B : S4SALAH");
        beep(500);
        delay(100);
    }
//PARKIR AB.2,3
    else if (j_kanan>=16 && j_depan<=15 && j_kiri<=15 && j_belakang>=16 )
    {
        delay(2000);
        digitalWrite(led1, LOW);
        digitalWrite(led2, LOW);
        Serial.println("PARKIR A : S2SALAH");
        Serial.println("                ");
        Serial.println("PARKIR B : S3SALAH");
        beep(500);
        delay(100);
    }
//PARKIR AB.1,3
    else if (j_kanan<=15 && j_depan>=16 && j_kiri<=15 && j_belakang>=16 )
    {
        delay(2000);
        digitalWrite(led1, LOW);
        digitalWrite(led2, LOW);
        Serial.println("PARKIR A : S1SALAH");
        Serial.println("                ");
        Serial.println("PARKIR B : S3SALAH");
        beep(500);
        delay(100);
    }
//PARKIR AB.2,4
    else if (j_kanan>=16 && j_depan<=15 && j_kiri>=16 && j_belakang<=15 )
    {
        delay(2000);
        digitalWrite(led1, LOW);
        digitalWrite(led2, LOW);

```

```

        Serial.println("PARKIR A : S2SALAH");
        Serial.println("                ");
        Serial.println("PARKIR B : S4SALAH");
        beep(500);
        delay(100);
    }

//PARKIR A.1,2
    else if (j_kanan<=15 && j_depan<=15 && j_kiri>=16 && j_belakang>=16 )
    {
        delay(2000);
        digitalWrite(led1, LOW);
        Serial.println("PARKIR A :   SALAH");
        Serial.println("                ");
        Serial.println("PARKIR B :   BENAR");
        beep(500);
        delay(100);
    }

//PARKIR B.3,4
    else if (j_kanan>=16 && j_depan>=16 && j_kiri<=15 && j_belakang<=15 )
    {
        delay(2000);
        digitalWrite(led2, LOW);
        Serial.println("PARKIR A :   BENAR");
        Serial.println("                ");
        Serial.println("PARKIR B :   SALAH");
        beep(500);
        delay(100);
    }

//PARKIR AB.1,2,3,4
    else if (j_kanan<=15 && j_depan<=15 && j_kiri<=15 && j_belakang<=15 )
    {
        delay(2000);
        digitalWrite(led1, LOW);
        digitalWrite(led2, LOW);
        Serial.println("PARKIR A :   SALAH");
        Serial.println("                ");
        Serial.println("PARKIR B :   SALAH");
        beep(500);
        delay(100);
    }

//PARKIR AB.1,2,3,
    else if (j_kanan<=15 && j_depan<=15 && j_kiri<=15 && j_belakang>=16 )
    {
        delay(2000);

```

```

        digitalWrite(led1, LOW);
        digitalWrite(led2, LOW);
        Serial.println("PARKIR A :   SALAH");
        Serial.println("                ");
        Serial.println("PARKIR B : S3SALAH");
        beep(500);
        delay(100);
    }

//PARKIR AB.1,2,4
    else if (j_kanan<=15 && j_depan<=15 && j_kiri>=16 && j_belakang<=15 )
    {
        delay(2000);
        digitalWrite(led1, LOW);
        digitalWrite(led2, LOW);
        Serial.println("PARKIR A :   SALAH");
        Serial.println("                ");
        Serial.println("PARKIR B : S4SALAH");
        beep(500);
        delay(100);
    }

//PARKIR AB.1,3,4
    else if (j_kanan<=15 && j_depan>=16 && j_kiri<=15 && j_belakang<=15 )
    {
        delay(2000);
        digitalWrite(led1, LOW);
        digitalWrite(led2, LOW);
        Serial.println("PARKIR A : S1SALAH");
        Serial.println("                ");
        Serial.println("PARKIR B :   SALAH");
        beep(500);
        delay(100);
    }

//PARKIR AB.2,3,4
    else if (j_kanan>=16 && j_depan<=15 && j_kiri<=15 && j_belakang<=15 )
    {
        delay(2000);
        digitalWrite(led1, LOW);
        digitalWrite(led2, LOW);
        Serial.println("PARKIR A : S2SALAH");
        Serial.println("                ");
        Serial.println("PARKIR B :   SALAH");
        beep(500);
        delay(100);
    }

```



```
//Bebas
else if (j_kanan>=16 && j_depan>=16 && j_kiri>=16 && j_belakang>=16 )
{
    delay(2000);
    //digitalWrite(led2, LOW);

    Serial.println("PARKIR A :   BENAR");
    Serial.println("                ");
    Serial.println("PARKIR B :   BENAR");
    delay(100);
}

    digitalWrite(led1, HIGH);
    digitalWrite(led2, HIGH);
    analogWrite(buzzerPin, 0);

}
```

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**PARKING\_SYSTEM** Screen1 Add Screen ... Remove Screen Designer Blocks

**Blocks**

- Built-in
  - Control
  - Logic
  - Math
  - Text
  - Lists
  - Colors
  - Variables
  - Procedures
- Screen1
  - VerticalArrangement1
    - HorizontalArrangement1
      - VerticalArrangement1
      - VerticalArrangement2
    - HASIL

**Viewer**

```

when ListPicker1 BeforePicking
do
  set ListPicker1 Elements to BluetoothClient1 AddressesAndNames

when Screen1 BackPressed
do
  close application

when ListPicker1 AfterPicking
do
  if call BluetoothClient1 Connect
  address ListPicker1 Selection
  then
    set ListPicker1 Elements to BluetoothClient1 AddressesAndNames
  if BluetoothClient1 IsConnected
  then
    set HasilBluetooth Text to (Connected)
    set HasilBluetooth TextColor to green
  else
    set HasilBluetooth Text to (Not Connected)
    set HasilBluetooth TextColor to red

when Clock1 Timer
do
  if BluetoothClient1 IsConnected and call BluetoothClient1 BytesAvailableToReceive > 0
  then
    set Hasil Text to call BluetoothClient1 ReceiveText
    numberofBytes call BluetoothClient1 BytesAvailableToReceive
  Show Warnings

when ON Click
  
```

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    - HorizontalArrangement1
      - VerticalArrangement1
      - VerticalArrangement2
    - HASIL

**Viewer**

```

set HasilBluetooth TextColor to red

when Clock1 Timer
do
  if BluetoothClient1 IsConnected and call BluetoothClient1 BytesAvailableToReceive > 0
  then
    set Hasil Text to call BluetoothClient1 ReceiveText
    numberofBytes call BluetoothClient1 BytesAvailableToReceive

when ON Click
do
  call BluetoothClient1 SendText
  text (W)

when OFF Click
do
  call BluetoothClient1 SendText
  text (G)

when ON1 Click
do
  call BluetoothClient1 SendText
  text (Z)

when OFF1 Click
do
  call BluetoothClient1 SendText
  text (V)
  
```