

## 1. Program Arduino.ino

```
#include <Servo.h>

Servo myservo;
int pos = 80;
int incomingByte;
int sensorgetar = 0;

const int sensorPin = A0;
int ledPin = 2;
int alarmPin = 3;

void setup()
{
  Serial.begin(9600);
  myservo.attach(4);

  pinMode(ledPin, OUTPUT);
  pinMode(alarmPin, OUTPUT);
  while (!Serial)
  {
    ;
  }
}

void loop()
{
  {
    incomingByte = Serial.read();
    if (incomingByte == 'A')
    {
      digitalWrite(ledPin, HIGH);
      for(pos = 0; pos < 80; pos++)
      {
        myservo.write(pos);
      }
    }

    else if (incomingByte == 'B')
    {
      digitalWrite(ledPin, LOW);
      for(pos = 0 ; pos >= 0; pos--)
      {
        myservo.write(pos);
      }
    }
  }
}
```

```
    }  
  }  
  
  else if (incomingByte == 'C')  
  {  
    tone(alarmPin, 400);  
  }  
  
  else if (incomingByte == 'D')  
  {  
    tone(alarmPin, 4, 100);  
  }  
}  
sensorgetar = analogRead(sensorPin);  
{  
  if ( incomingByte == 'B' && sensorgetar >= 150 )  
  {  
    tone(3, 400);  
    delay( 3000 );  
    tone(alarmPin, 4, 100);  
  }  
  
  else if (sensorgetar == LOW && incomingByte == 'A')  
  {  
    tone(alarmPin, 4, 100);  
  }  
}
```

## 2. Program Processing.pde

```
import processing.serial.*;  
Serial port;  
  
void setup()  
{  
  port = new Serial(this, "COM8", 9600);  
}  
  
void draw()  
{  
  String onoroff[] = loadStrings  
  ("https://sunarsojsteknik08.000webhostapp.com/project/result.txt  
");
```

```
print(onoroff[0]);

if (onoroff[0].equals("1") == true)
{
    println(" - MENGHIDUPKAN CASE 1");
    port.write('A');
}

else if
(onoroff[0].equals("0") == true)
{
    println(" - MEMATIKAN CASE 1");
    port.write('B');
}

else if
(onoroff[0].equals("2") == true)
{
    println(" - MENGHIDUPKAN ALARM");
    port.write('C');
}

else if
(onoroff[0].equals("3") == true)
{
    println(" - MEMATIKAN ALARM");
    port.write('D');
}
delay(1000);
}
```

### 3. Program Core.php

```
<HTML>
<head><title>Arduino</title></head>
<link rel="stylesheet" type="text/css" href="css/shu.css">
<link rel="stylesheet" type="text/css" href="css/botton3.css">

<?php
<?php
$username="root";
$password="";
$server="localhost";
$db="project";

$sambung=mysqli_connect($server,$username,$password) or die
```

```
("Koneksi ke Database Gagal!");
$select_db=mysqli_select_db($sambung,$db) or die ("Database
Tidak Tersedia");
?>

error_reporting(E_ALL ^ (E_NOTICE | E_WARNING));
echo '<br><br><br>';
$system = php_uname() ;

function save($nmr)
{
    $cetak = fopen("result.txt", "w");
    fwrite($cetak, $nmr);
    fclose($cetak);
}

echo "<table><center><h2> S t a t u s </table>";
echo "<center>";
if(case1=="null")
{
    echo " ";
}
elseif($_GET['case1'] == "1")
{
    echo "Pintu Terbuka";
    fwrite($port, "A");
    save("1");
}
elseif($_GET['case1'] == "0")
{
    echo "Pintu Tertutup";
    fwrite($port, "B");
    save("0");
}

elseif($_GET['case1'] == "2")
{
    echo "Alarm Bunyi";
    fwrite($port, "C");
    save("2");
}

elseif($_GET['case1'] == "3")
{
    echo "Alarm Mati";
    fwrite($port, "D");
}
```





