

# SMART LOCKER

## CODE:

```
#include <Wire.h>

#include <LiquidCrystal_I2C.h>

#include <SoftwareSerial.h>

#include<Servo.h>

LiquidCrystal_I2C lcd(0x27, 16, 2);

SoftwareSerial mySerial(9, 10);

int pB[4]={2,3,4,5};

int pass[4];

int q[4]={0,0,0,0};

int outPin[4]={11,8,7,6};

char gsmPass[4];

int epass[4];

const int buzzer = 13;

int servoPin=12;

Servo servo1;

int t;

float d;

int a,ch;

int co=0;

char c;

int a2=7;

int a3=6;

int ma;
```

```
int lo=0;

float aw=256;

//LiquidCrystal lcd(12,13,11,10,9,8);

void setup()

{

    int i=0;

    lcd.begin();

    lcd.backlight();

    lcd.clear();

    lcd.print("to open press ");

    lcd.setCursor(0,1);

    lcd.print(4);

    for (i=0;i<4;i++)

    {

        pinMode(pB[i],INPUT);

        pinMode(outPin[i],OUTPUT);

    }

    pinMode(buzzer,OUTPUT);

    servo1.attach(servoPin);

    //pinMode(led, OUTPUT);

    mySerial.begin(9600);

    Serial.begin(9600);

}
```

```
void loop()
{
  int i=0;

  a=0;

  while(lo==0)
  {
    while(q[i]<4)
    {
      q[i]++;

      if (q[i]==4)
        q[i]=0;

      i++;

      if (i==4)
        i=0;

      if(digitalRead(pB[3]))
      {
        a++;

        Serial.println("...");

        break;
      }

      delay(50);

      Serial.print(i);

      Serial.println(q[i]);
    }

    if(a)
```

```

{
    lo++;

    break;
}
}

Serial.print("pass is : ");

for(t=0;t<4;t++)
{
    pass[t]=q[t];

    if (q[t]==0)
    {
        pass[t]=4;
    }

    gsmPass[t]=pass[t]+'0';

    Serial.print(pass[t]);
}

Serial.println(gsmPass);

mySerial.println("AT+CMGF=1"); //Sets the GSM Module in Text Mode

delay(1000); // Delay of 1 second

mySerial.println("AT+CMGS=\"+917659898992\\r\"); // Replace x with mobile number

delay(1000);

mySerial.println(gsmPass);// The SMS text you want to send

delay(100);

mySerial.println((char)26);// ASCII code of CTRL+Z for saying the end of sms to the module

delay(1000);

```

```
mySerial.println(gsmPass);// The SMS text you want to send

mySerial.println("is your passcode");

delay(100);

mySerial.println((char)26);// ASCII code of CTRL+Z for saying the end of sms to the module

delay(1000);

Serial.println(".");

int j=0;

ma=0;

a=0;

t=check();

delay(1000);

lcd.setCursor(0,0);

lcd.print("enter passcode");

while (co==0)

{

    for (i=0;i<4;i++)

    {

        t=check();

        epass[i]=t;

        Serial.print(epass[i]);

        Serial.print("==");

        Serial.println(pass[i]);

        delay(450);

        c=t;
```

```
lcd.setCursor(i,1);

lcd.print(t);

delay(200);

lcd.setCursor(i,1);

lcd.print("*");

}

for (i=0;i<4;i++)

{

    if (epass[i]==pass[i])

    {

        j++;

        Serial.println(j);

    }

}

if (j==4)

{

    Serial.println("correct password");

    lcd.clear();

    lcd.setCursor(0,0);

    lcd.print("Correct Password");

    co=co+1;

    digitalWrite(outPin[0],HIGH);

    digitalWrite(outPin[1],LOW);

    digitalWrite(outPin[2],LOW);
```

```
    digitalWrite(outPin[3],LOW);

    servo1.write(90);

    break;

}

else

{

    Serial.println("incorrect password");

    lcd.clear();

    lcd.setCursor(0,0);

    lcd.print("incorrect Password");

    ma++;

    if (ma<3)

    {

        lcd.setCursor(0,1);

        lcd.print(3-ma);

        lcd.print(" attempts remaining");

        delay(1000);

        lcd.clear();

        lcd.setCursor(0,0);

        lcd.print("enter password:");

    }

    else if (ma==3)

    {

        lcd.setCursor(0,1);
```

```
lcd.print("max limit exceeded");

tone(buzzer,1000);

delay(1000);

noTone(buzzer);

co=2;

}

/*if (ma==1)

{

digitalWrite(a3,LOW);

}

else if (ma==2)

{

digitalWrite(a2,LOW);

digitalWrite(a3,HIGH);

}

else if (ma==3)

{

digitalWrite(a2,HIGH);

digitalWrite(a3,LOW);

break;

}*/

for(i=1;i<=ma;i++)

{

digitalWrite(outPin[i],HIGH);

delay(50);
```



```
    }  
    j=0;  
    }  
    }  
}
```

```
int check()  
{  
    int o=0;  
    int i,j;  
    while (o==0)  
    {  
        for (i=0;i<4;i++)  
        {  
            j=digitalRead(pB[i]);  
            if (j==HIGH)  
            {  
                o=i+1;  
                return o;  
                break;  
            }  
        }  
    }  
}
```

## Screenshots:





