

Assignment 1

Submitted by:

B7-1A3E

M JAWERIYA SHARIEFF team leader

A R Rizwana

S Thaslima

I Jasheena

M Geetha

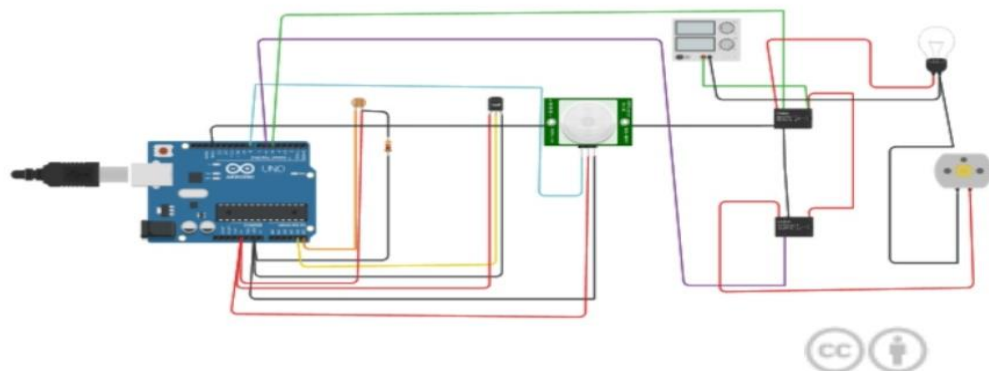
CODE:

```
float x,y,z,temp;
void setup()
{
    pinMode(8, INPUT);
    pinMode(5, OUTPUT);
    pinMode(6, OUTPUT);
    pinMode(A5, INPUT);
    pinMode(A4, INPUT);
    Serial.begin(9600);
}
void loop()
{
    x= digitalRead(8);
    y= analogRead(A5);
    z= analogRead(A4);
```

```
Serial.println(x);
Serial.println(y);
Serial.println(z);
temp = (double)z / 1024;
temp = temp * 5;
temp = temp - 0.5;
temp = temp * 100;
if ( (x>0) )
{
    if ((y<550)&&(temp>30))
    {
        digitalWrite(5, HIGH);
        digitalWrite(6, HIGH);
    }
    else if((y<550)&&(temp<30))
    {
        digitalWrite(5, HIGH);
        digitalWrite(6, LOW);
    }
    else if((y>550)&&(temp>30))
    {
        digitalWrite(5, LOW);
        digitalWrite(6, HIGH);
    }
    else if((y>550)&&(temp<30))
    {
```

```
digitalWrite(5, LOW);  
digitalWrite(6, LOW);  
}  
}  
else  
{  
digitalWrite(5, LOW);  
digitalWrite(6, LOW);  
}  
}
```

FIGURE:



TINKERCAD LINK:

<https://www.tinkercad.com/things/awnu5lgHD7l>