Assignment 1

Submitted by:

B7-1A3E

M JAWERIYA SHARIEFF team leader

A R Rizwana

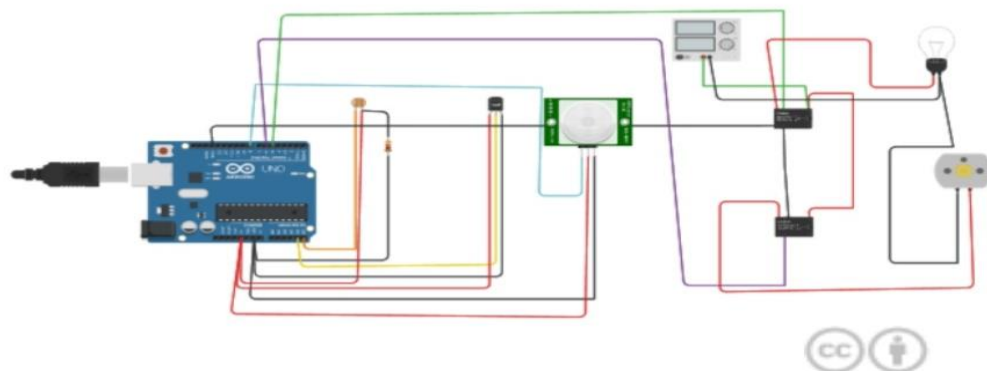S Thaslima

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/awnu5lgHD7I