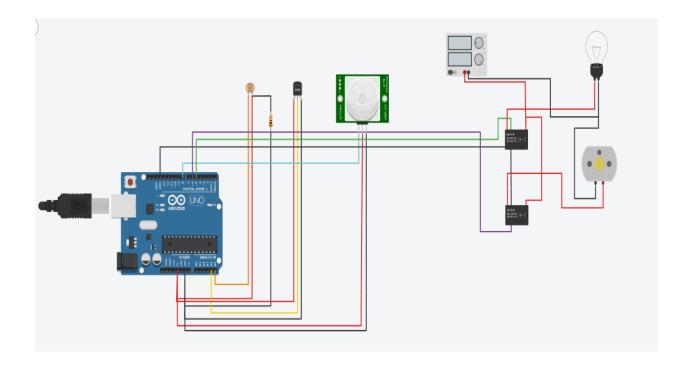# ASSESSMENT-1

Coding :

```
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);

 }

}
```