ASSIGNMENT-1

Smart Home Automation Using Sensors

```
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);
}
}
```

OUTPUT:





