

Assignment -1

Python Programming

Assignment Date	22 September 2022
Student Name	Mr. ABDUL AZIZ M
Student Roll Number	812419106002
Maximum Marks	2 Marks

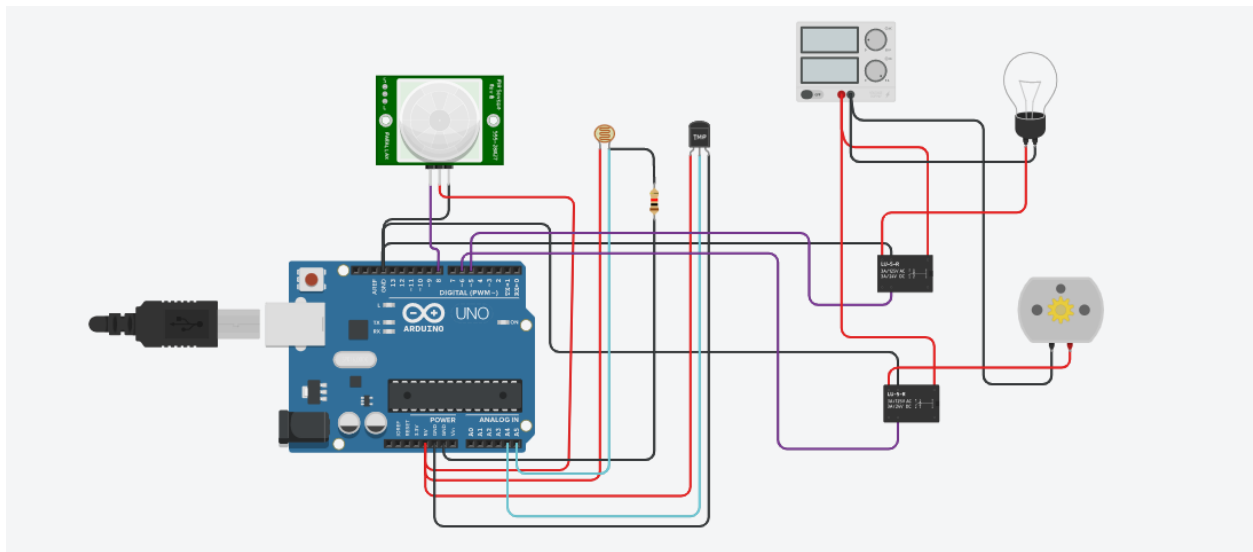
Question-1:

MAKE A SMART HOME USING TWO SENSORS

LINK:

<https://www.tinkercad.com/things/7OHqsMj3bDL-smart-homeassignment1/editel>

CIRCUIT:



PROGRAM:

```
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  
{  
2  
digitalWrite(5, LOW);  
digitalWrite(6, LOW);  
}  
}
```