Assignment-1

Assignment	1
Student Name	DEEPTHI. H
Student Roll Number	211419104052
Maximum Marks	2 Marks

Question-1:

Build a smart home in tinkercad with 2 sensors, an Led, buzzer .

<u>Solution:</u>
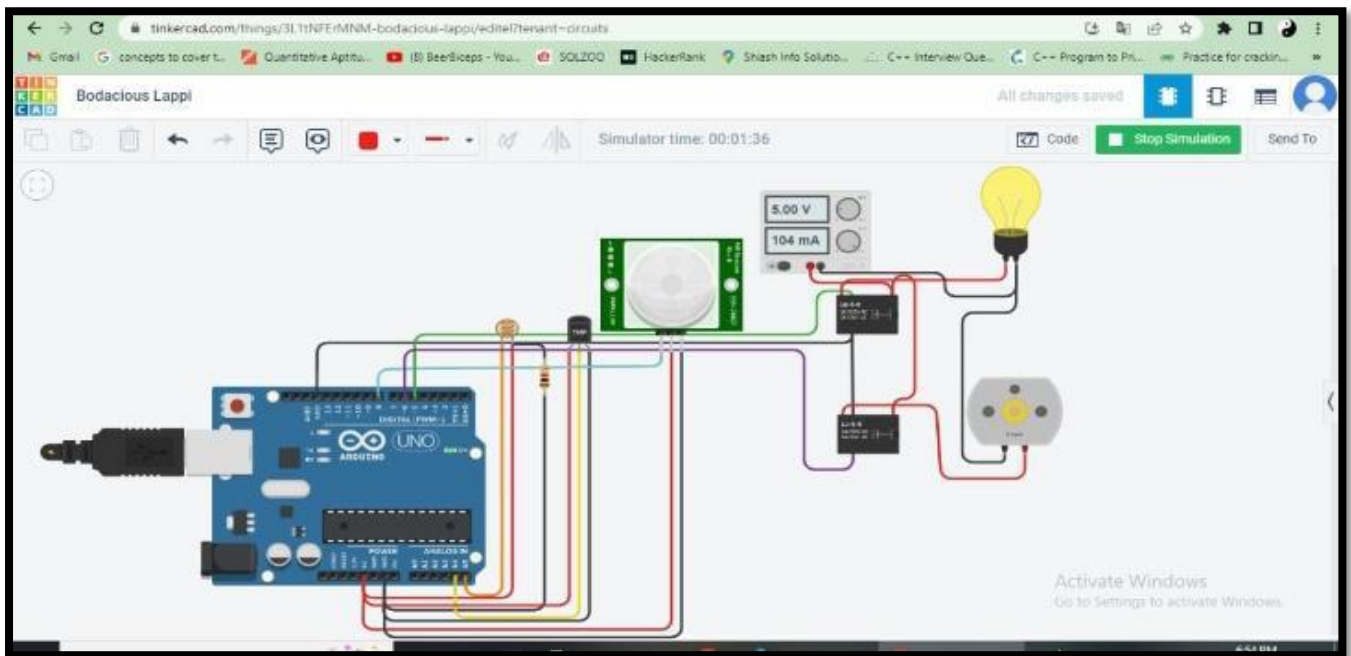
<u>Program:</u>

```
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);
```

```arduino
}
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);
  }
}
```