Assignment -1
Tinkercad

Assignment Date	19 September 2022
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Maximum Marks	2 Marks

Question-1:

Build a smart home in tinkercad Use atleast 2 sensors, led, buzzer in a circuit. Simulate in a single code.

Solution:

```
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);

 }
}
```