

Assignment -1
Home automation Using TinkerCAD

Assignment Date	19 September 2022
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Maximum Marks	2 Marks

Question-1:

Create automated home which is have at lest two sensors, one LED and one Buzzer Using TinkerCAD

Solution:

Code:

```
int buzzer = 12;

float temp;

int m=0;int p=0;

void setup()
{
  Serial.begin(9600);
  pinMode(buzzer, OUTPUT);
  pinMode(13, OUTPUT);
}

void loop()
{
  temp = analogRead(A5);
  temp = temp * 0.48828125;
  Serial.print("TEMPERATURE IS:");
  Serial.print(temp);
  Serial.print("*c");
  Serial.println();

  m = analogRead(A0);
  p = map(m,0,255,0,1023);
```

```
Serial.println(p);  
if(p>100 && temp>50)  
{  
    Serial.println("Motion is Detected");  
    digitalWrite(13,HIGH);  
    delay(1000);  
    digitalWrite(12,HIGH);  
  
    tone(12,150); // pin number,frequency(20-30000),delay  
    delay(1000);  
    noTone(12);  
    delay(1000);  
  
}  
  
else  
{  
    digitalWrite(13,LOW);  
    delay(1000);  
  
}  
}
```

