

Assignment -1
Home automation Using TinkerCAD

Assignment Date	17 November 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);

}

}

```

