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,frequancy(20-30000),delay delay(1000);

 noTone(12);

 delay(1000);


}


else

{

        digitalWrite(13,LOW);

 delay(1000);


}
}
```