# Assignment -1

Home automation Using TinkerCAD

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| Assignment Date | 19 September 2022 |
| Student Name | SIVABALAN P |
| Student Roll Number | 812119104032 |
| 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);

}

}

