

Assignment -1
Python Programming

Assignment Date	24 September 2022
Student Name	MALAVIKA M
Student Roll Number	511319106022
Maximum Marks	2 Marks

Question-1:

Design a smart home application on tinkercad using Arduino and use minimum of 2 sensors, and a buzzer.

Solution:

```
void setup()
{
  Serial.begin(9600);
  pinMode(4,INPUT);
  pinMode(8,OUTPUT);
  pinMode(13,OUTPUT);
}

void loop()
{
  int p=digitalRead(4);
  Serial.println(p);
  if(p)
  {
    digitalWrite(13,1);
    Serial.println("motion detected");
  }
  delay(1000);
  double a=analogRead(A0);
  double t=((a/1024)*5)-0.5)*100;
  Serial.println(t);
  if(t>25)
  {
    digitalWrite(8,1);
    Serial.println("temperature greater than 25");
    delay(1000);
  }
}
```

Circuit Diagram :

