

Assignment-1

Make a smart home in tinkercad using 2+ sensors

Assignment Date	19 September 2022
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Maximum Marks	2 Marks

Question-1:

Make a Smart Home in Tinkercad, using 2+ sensors, Led, Buzzer in single code and circuit.

Solution:

Code:

```
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:

