

**Assignment -1**  
Python Programming

Assignment Date	21 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:**

```
#include<servo.h>

int t=2;

int e=3;

int led=12;

int sensor=7;

int buz=5;

int state=LOW;

int val=0; Servo s;

void setup() {

  pinMode(led, OUTPUT);

  pinMode(sensor,INPUT);

  pinMode(t,OUTPUT);

  pinMode(e,INPUT);

  pinMode(buz,OUTPUT);

  s.attach(9);

  Serial.begin(9600);

}

void loop() {
```

```
val=digitalRead(sensor);  
if(val==HIGH) {  
  digitalWrite(led,HIGH);  
  delay(500);  
}  
digitalWrite(t,0);  
digitalWrite(t,1);  
delayMicroseconds(10);  
digitalWrite(t,0);  
float dur =pulseIn(e,HIGH);  
float dis=(dur*0.0343)/2;  
Serial.print(dis);  
if(dis>70) tone(5,100);  
else noTone(0);  
}
```

