

Assignment 2

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Online Python Compiler (Interpreter) x +

programiz.com/python-programming/online-compiler/

Programiz
Python Online Compiler

Interactive Python Course

main.py

```
1 int t=2;
2 int e=3;
3
4 void setup()
5 {
6     serial.begin(9600);
7     pinMode(t,OUTPUT);
8     pinMode(e,INPUT);
9     pinMode(12,OUTPUT);
10 }
11
12 void loop()
13 {
14     //ultrasonic sensor
15     digitalWrite(t,LOW);
16     digitalWrite(t,HIGH);
17     delaymicroseconds(10);
18     delaywrite(t,LOW);
19     float dis=pulseIn(e,HIGH);
20     float dis=(dur*0.343)/2;
21     serial.print("Distance is: ");
22     seiral.printIn(dis);
23 }
```

Run Shell Clear

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main.py







Run




Shell

Clear


```
21 serial.print("Distance is: ");
22 seiral.println(dis);
23
24 //LED ON
25 if(dis>100)
26 {
27     digitalWrite(8,HIGH);
28     digitalWrite(7,HIGH);
29 }
30
31 //Buzzer for ultrasonic sencor
32 if(dis>100)
33 {
34     for (int i=0; i<=30000; i=i+10)
35     {
36         tone(12,i);
37         delay(1000);
38         noTone(12);
39         delay(1000);
40     }
41 }
42
43
```







main.py






Shell




```
43
44
45
46 //Temperature sencor
47 double a= analogread(A0);
48 double t=(((a/1024)*5)-0.5)*100;
49 serial.print(temp value: ");
50 delay(1000);
51
52
53
54 //LED ON
55 if(t>=100)
56 {
57     digitalWrite(8,HIGH);
58     digitalWrite(7,HIGH);
59 }
60
61 //Buzzer for temperature sencor
62 if(t>=100)
63 {
64     for(int i=0; i<=30000; i=i+10)
```



main.py



Shell



```
57     digitalWrite(8,HIGH);  
58     digitalWrite(7,HIGH);  
59 }  
60  
61 //Buzzer for temperature sencor  
62 if(t>=100)  
63 {  
64     for(int i=0; i<=30000; i=i+10)  
65     {  
66         tone(12,i);  
67         delay(1000);  
68         noTone(12);  
69         delay(1000);  
70     }  
71 }  
72  
73 //LED OFF  
74 if(t<100)  
75 {  
76     digitalWrite(8,LOW);  
77     digitalWrite(7,LOW);  
78 }  
79 }
```

Output

