

## Assignment -1

### Python programming

Assignment Date	September 2022
Student Name	P Suriya
Student Roll Number	910619104091
Maximum Marks	2 Marks

#### Question-1:

Build a python code, Assume you get humidity and temperature values (generated with random function to a variable) and write a condition continuously detect alarm in case of high temperature.

#### SOLUTION:

```
import random
```

```
while True:
```

```
    a=random.randint(35,100)
```

```
    b=random.randint(50,100)
```

```
    print("-----")
```

```
    if a>40:
```

```
        print("High temperature is detected")
```

```
        print("Buzzer on,alarm sound is high")
```

```
    elif a==40:
```

```
        print("Temperature reached maximum threshold of 40 degrees celsius")
```

```
    else:
```

```
        print("Good temperature")
```

```
#for Humidity
```

if b>60 :

print("High humidity is detected")

print("Buzzer on,alarm sound is high")

elif a == 60:

print("Humidity reached maximum threshold of 65 percent")

else:



print("good humidity")

output:

```
-----  
High temperature is detected  
Buzzer on,alarm sound is high  
High humidity is detected  
Buzzer on,alarm sound is high  
-----  
High temperature is detected  
Buzzer on,alarm sound is high  
High humidity is detected  
Buzzer on,alarm sound is high  
-----  
High temperature is detected  
Buzzer on,alarm sound is high  
good humidity  
-----  
High temperature is detected  
Buzzer on,alarm sound is high  
High humidity is detected  
Buzzer on,alarm sound is high  
-----  
Temperature reached maximum threshold of 30 degrees celsius  
High humidity is detected  
Buzzer on,alarm sound is high  
-----  
High temperature is detected  
Buzzer on,alarm sound is high  
good humidity  
-----  
High temperature is detected  
Buzzer on,alarm sound is high  
High humidity is detected  
Buzzer on,alarm sound is high  
-----  
High temperature is detected  
-----
```

```
main.py +
8 print("-----")
9 if a>40:
10     print("High temperature is detetcted")
11     print("Buzzer on,alarm sound is high")
12 elif a==40:
13     print("Temprature reached maximum thershold of 40 degrees celsius")
14 else:
15     print("Good temperature")
16 #for Humidity
17 if b>60 :
18     print("High humidity is detetcted")
19     print("Buzzer on,alarm sound is high")
20 elif a == 60:
21     print("Humidity reached maximum thershold of 60 degrees")
22
```

Ln: 23, Col: 31

 Run  Share Command Line Arguments

```
High temperature is detetcted
Buzzer on,alarm sound is high
High humidity is detetcted
Buzzer on,alarm sound is high
-----
High temperature is detetcted
Buzzer on,alarm sound is high
High humidity is detetcted
Buzzer on,alarm sound is high
```