

Assignment -2
Python Programming

Assignment Date	18 October 2022
Student Name	R.Dinesh
Student Roll Number	73151921015
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 thershold of 65 percent")

else:



    print("good humidity")
```

Output:

```
-----
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
-----
High temperature is detetcted
Buzzer on,alarm sound is high
good humidity
-----
High temperature is detetcted
Buzzer on,alarm sound is high
High humidity is detetcted
Buzzer on,alarm sound is high
-----
Temprature reached maximum thershold of 30 degrees celsius
High humidity is detetcted
Buzzer on,alarm sound is high
-----
High temperature is detetcted
Buzzer on,alarm sound is high
good humidity
-----
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
```

```
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 threshold of 60 degrees celsius")
22
```

Ln: 23, Col: 31

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```

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
```