Assignment -2

Python Programming

Assignment Date	18 October 2022
Student Name	N.Sowmiya
Student Roll Number	73151921051
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 detetcted")
print("Buzzer on,alarm sound is high")    elif
a==40:
        print("Temprature reached maximum threshold of 40 degrees celsius")
    else:
        print("Good temperature")
#for Humidity
    if b>60 :
    print("High humidity is detetcted")
    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
```

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:
```

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
```