Assignment -1

Python programming

Assignment Date	September 2022
Student Name	G S Sruthika
Student Roll Number	910619104088
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:

```python
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 thershold 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")
```

```python
    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 +

```python
 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

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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
```