Assignment -2

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

▶ 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
```