Assignment -2

Python programming

Assignment Date	September 2022
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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 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")        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   �к 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
```