Assignment -1
Python Programming

Assignment Date	18 October 2022
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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 +

```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
```