Assignment – 2

Python Programming

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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 | 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
```