Assignment II

Python Programming

Assignment Date	28 September,2022
Student Name	Brindha M
Student Roll Number	922519205024
Maximum Marks	4 Marks

Question-1:

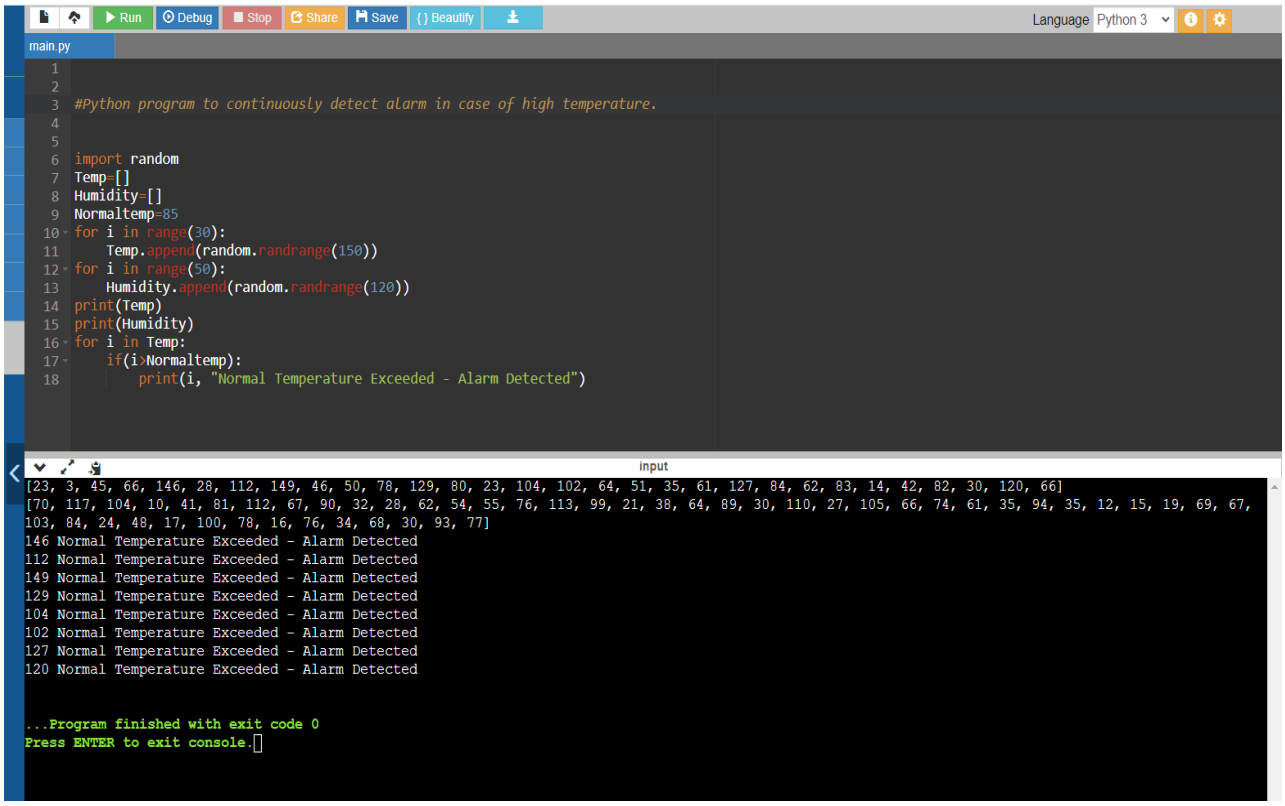
Build a python code, Assume you get temperature and humidity values (generated with random function to a variable) and write a condition to continuously detect alarm in case of high temperature.

SOLUTION:

PYTHON CODE:

```
import random
Temp=[]
Humidity=[]
Normaltemp=85
for i in range(30):
   Temp.append(random.randrange(150))
for i in range(50):
   Humidity.append(random.randrange(120))
print(Temp)
print(Humidity)
for i in Temp:
   if(i>Normaltemp):
   print(i, "Normal Temperature Exceeded - Alarm Detected")
```

OUTPUT:


Run
Debug
Stop
Share
Save
{ } Beautify
Language
Python 3
main.py
#Python program to continuously detect alarm in case of high temperature.
import random
Temp=[]
Humidity=[]
Normaltemp=85
for i in range(30):
Temp.append(random.randrange(150))
for i in range(50):
Humidity.append(random.randrange(120))
print(Temp)
print(Humidity)
for i in Temp:
if(i>Normaltemp):
print(i, "Normal Temperature Exceeded - Alarm Detected")
input
[23, 3, 45, 66, 146, 28, 112, 149, 46, 50, 78, 129, 80, 23, 104, 102, 64, 51, 35, 61, 127, 84, 62, 83, 14, 42, 82, 30, 120, 66]
[70, 117, 104, 10, 41, 81, 112, 67, 90, 32, 28, 62, 54, 55, 76, 113, 99, 21, 38, 64, 89, 30, 110, 27, 105, 66, 74, 61, 35, 94, 35, 12, 15, 19, 69, 67, 103, 84, 24, 48, 17, 100, 78, 16, 76, 34, 68, 30, 93, 77]
146 Normal Temperature Exceeded - Alarm Detected
112 Normal Temperature Exceeded - Alarm Detected
149 Normal Temperature Exceeded - Alarm Detected
129 Normal Temperature Exceeded - Alarm Detected
104 Normal Temperature Exceeded - Alarm Detected
102 Normal Temperature Exceeded - Alarm Detected
127 Normal Temperature Exceeded - Alarm Detected
120 Normal Temperature Exceeded - Alarm Detected
...Program finished with exit code 0
Press ENTER to exit console.