ASSIGNMENT - 2

PYTHON PROGRAMMING

Assignment Date	19 September 2022
Student Name	Manikandan S
Student Roll Number	73771914133
Maximum Marks	2 Marks

QUESTION-1:

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

SOLUTION: " Let us consider normal temperature=40 Celsius and normal humidity=65% import random Temperature=random.randint(1,100) Humidity=random.randint(1,100) print("Temperature:") print(Temperature) print("Humidity:") print(Humidity) if((Temperature>40)&(Humidity>65)): print("Values are HIGH!!! ") print("ALERT") if((Temperature>40)&(Humidity65)): print("Humidity Value is HIGH!!! ") print("Check Humidity") if((Temperature<40)&(Humidity<65)): print("All Values are in limit!!!") print("SAFE ZONE")

OUTPUT:

```
Lot us consider normal temperature-40 Celsius and normal humidity-65%
                                                                                                                                                                                                                         13
                                                                                                                                                                                                                         Humidity:
                           random
                                                                                                                                                                                                                         94
  1 Import random.
2 Temperature-random.randint(1,100)
3 publi("random.randint(1,100)
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4 publi("random.randint")
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                                                                                                                                                                                                                         Homidity Value is HIGH!!!
                                                                                                                                                                                                                         Check Humidity
 11 - if((Temperature = 48)%(Humidity = 65)):
           print("Values are HIGH!!! ")
print("ALERI")
 14- If((Temperature:48)&(Humidity:65)):
15 print("Tempertaure Value is HIGHTI ")
10 print("Check Temperature")
17 lf((Temperature:40)5(Hamidity:65)):
18 print("Humidity Value is HIGH!!! ")
19 print("Check Humidity")
           If((Temperature(AR))(Humidity(AS)):
            print("All Values are in limit!!! ")
print("SAFE ZONE")
            Let us consider normal temperature-MB Celaius and normal humidity-05%
                                                                                                                                                                                                                         Humidity:
                        rt random
   Temperature-random.randist(1,188)
Handity-random.randist(1,188)
print(Temperature:)
print(Temperature)
                                                                                                                                                                                                                         Values are HIGH!!!
                                                                                                                                                                                                                         ALERT
                  rint("Humidity:")
rint(Humidity)
             If((Temperature-60)%(Humidity-65)):
              print("Values are HiGHIII ")
print("ALERI")
             ((Temperature =60)%(Hamidity:65)):
             print("Temportance Value is HTG#!!! ")
print("Check temporature")
             ff((Temperature:00)5(Hamidity:65)):
              print("Hamidity Value is HIGH!!! ")
print("Check Humidity")
  28 if((Temperature of0)5(Namidity(65)):
             print("All Values are in limit!!! ")
print("SAFE ZOME")
     2 Lot us concider normal temperature-40 Celsius and normal humidity-65%
                                                                                                                                                                                                                           Humidity:
     5 Temperature-random.rundist(1,100)
                                                                                                                                                                                                                           Tempertaure Value is HIGH!!!
    6 Humldity-random.randint(1,188)
7 print("Temperature:")
                                                                                                                                                                                                                         Check Temperature
     I print(Temperature)
           print(hamidity: )
print(hamidity)
             if((Temperature:48)4(Humidity:65)):
              print("Values are HIGH!!")
print("ALEK!")
             if((Temperature)40)&(Humidity:65)):
             print("Tempertaure Value is HIGH!!!")
print("Check Temperature")
Lf((Temperature</d>)3(Mamidity-55)):
              print('Howldity Value is HIGHIII ')
print('Check Howldity')
           if((Temperature(H)&(Humidity(H))):
              print("All Values are in limit!!! ")
print("SAFE ZOME")
```

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tut us consider normal temperature—AD Calcius and normal humbdity—HDA

temperature—residem_resulte(1,100)

humbdity—random_resulte(1,100)

humbdity—random_resulte(1,100)

print(Temperature)

print(Temperature)

print(Temperature)

print(Temperature—AD)(Humbdity:0)

if ((Temperature—AD)(Humbdity:0)

print(Temperature—AD)(Humbdity:05)):

print(Temperature—AD)(Humbdity:05):

print(Temperat
```