ASSIGNMENT – 2

PYTHON PROGRAMMING

Assignment Date	19 September 2022
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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:

```
Humidity:
 5 Temperature-random-randim((1,100)
6 Humidity-random-randim((1,100)
                                                                                                                           Humidity Value is HIGH!!!
                                                                                                                          Check Humidity
print("Temperature;")

print(Temperature)

print(Temperature)

print("Temperature)

print("Tempidity:")

print(Hemidity)
11-11((Temperature>40)%(Humidity>65)):
12 print("Values are MIGHT!")
13 print("ALEST")
14 [f((Tomporature-48)&(Humidity-65)):
15 prim("Temporature Value is HighHi!(")
10 print("Check Temporature")
17 - If((Temperature:48)%(Humldity:65)):
18 print("Humidity Value is High!!! ")
19 print("Check Humidity")
20 - If((Temperature:40)%(Humidity:05)):
21 print("All Values are in limit!!! ")
22 print("SAFE ZONE")
                                                                                                                           Humidity:
 4 Import random
5 Temperature-random.randint(1,588)
6 Humidity-random.randint(1,580)
                                                                                                                           60
                                                                                                                           Values are HIGH!!!
                                                                                                                           ALERT
7 print("Temperature:")
8 print(Temperature)
9 print("Humldity:")
18 print(Humldity)
11 - If((Temperature -80)%(Namidity -65)):
12 print("Values are HiGHIII ")
13 print("ALERI")
54 if((Temperature:60)h(Hamidity:65)):
15 print("Temportnure Value is HEQUIII")
16 print("Chack Temporature")
       ff((Temperature:00)5(Hamidity:65)):
       print("Hamidity Value is HIGH!!! ")
print("Check Humidity")
20 if((Temperature-40)h()temidity-65)):
       print("All Values are in limit!!! ")
print("SAFE ZOME")
                                                                                                                            Humidity:
  4 import random
  5 Temperature-random.randimt(1,100)
                                                                                                                            Tempertaure Value Is HIGHT!!
  6 Humidity-random.randint(1,188)
                                                                                                                           Check Temperature
7 print("Temperature:")
8 print(Temperature)
9 print(Temperature)
10 print(Temperature)
10 if ((Temperature 40)&(Humidity:65)):
12 print("Values are HEGH!!")
13 print("ALEKT")
14 lf((Temperature:40)&(Humidity:65)):
15 print("Tempertoure Value is HIGHIII ")
18 print("Check Temperature")
 17 If((Temperature:48)&(Hamidity:65)):
18 print("Howldity Value is HIGHIII ")
19 print("Cherk Hamidity")
20 if((Temperature(N)))(Numidity(N))):
       print("All Values are in limiti!! ")
print("SAFE ZOME")
```

```
Lut us consider normal temperature-80 Caislas and normal humidity-65%

Ligart random

Temperature-random.randint(1,100)

Humidity-nandom.randint(1,100)

Humidity-nandom.randint(1,100)

print(Temperature-1)

print(Temperature-1)

print(Temperature-2)

print(Temperature-30)E(Namidity-05)):

print(Temperature-30)E(Namidity-05):

print(Temperature-30)E(Namidity-30)E(Namidity-30)E(Namidity-30)E(Namidity-30)E(Namidity-30)
```