

ASSIGNMENT – 2

PYTHON PROGRAMMING

Assignment Date	19 September 2022
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Student Roll Number	73771914142
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)&(Humidity<65)):

    print("Humidity Value is HIGH!!! ")

    print("Check Humidity")

if((Temperature<40)&(Humidity<65)):

    print("All Values are in limit!!!")

    print("SAFE ZONE")
```

OUTPUT:

```
1 """
2 Let us consider normal temperature=40 Celcius and normal humidity=65%
3 """
4 import random
5 Temperature=random.randint(1,100)
6 Humidity=random.randint(1,100)
7 print("Temperature:")
8 print(Temperature)
9 print("Humidity:")
10 print(Humidity)
11 if(((Temperature>40)&(Humidity>65))):
12     print("Values are HIGH!! ")
13     print("ALERT")
14 if(((Temperature>40)&(Humidity<65))):
15     print("Temperature Value is HIGH!! ")
16     print("Check Temperature")
17 if(((Temperature<40)&(Humidity>65))):
18     print("Humidity Value is HIGH!! ")
19     print("Check Humidity")
20 if(((Temperature<40)&(Humidity<65))):
21     print("All Values are in limit!! ")
22     print("SAFE ZONE")
```

```
Temperature:
11
Humidity:
94
Humidity Value is HIGH!!
Check Humidity
```

```
1 """
2 Let us consider normal temperature=40 Celcius and normal humidity=65%
3 """
4 import random
5 Temperature=random.randint(1,100)
6 Humidity=random.randint(1,100)
7 print("Temperature:")
8 print(Temperature)
9 print("Humidity:")
10 print(Humidity)
11 if(((Temperature>40)&(Humidity>65))):
12     print("Values are HIGH!! ")
13     print("ALERT")
14 if(((Temperature>40)&(Humidity<65))):
15     print("Temperature Value is HIGH!! ")
16     print("Check Temperature")
17 if(((Temperature<40)&(Humidity>65))):
18     print("Humidity Value is HIGH!! ")
19     print("Check Humidity")
20 if(((Temperature<40)&(Humidity<65))):
21     print("All Values are in limit!! ")
22     print("SAFE ZONE")
```

```
Temperature:
79
Humidity:
69
Values are HIGH!!
ALERT
```

```
1 """
2 Let us consider normal temperature=40 Celcius and normal humidity=65%
3 """
4 import random
5 Temperature=random.randint(1,100)
6 Humidity=random.randint(1,100)
7 print("Temperature:")
8 print(Temperature)
9 print("Humidity:")
10 print(Humidity)
11 if(((Temperature>40)&(Humidity>65))):
12     print("Values are HIGH!! ")
13     print("ALERT")
14 if(((Temperature>40)&(Humidity<65))):
15     print("Temperature Value is HIGH!! ")
16     print("Check Temperature")
17 if(((Temperature<40)&(Humidity>65))):
18     print("Humidity Value is HIGH!! ")
19     print("Check Humidity")
20 if(((Temperature<40)&(Humidity<65))):
21     print("All Values are in limit!! ")
22     print("SAFE ZONE")
```

```
Temperature:
88
Humidity:
31
Temperature Value is HIGH!!
Check Temperature
```

```

1 '''
2 Let us consider normal temperature=40 Celsius and normal humidity=65%
3 '''
4 import random
5 Temperature=random.randint(1,100)
6 Humidity=random.randint(1,100)
7 print("Temperature:")
8 print(Temperature)
9 print("Humidity:")
10 print(Humidity)
11 if((Temperature>40)&(Humidity>65)):
12     print("Values are HIGH!!! ")
13     print("ALERT")
14 if((Temperature>40)&(Humidity>65)):
15     print("Temperature Value is HIGH!!! ")
16     print("Check Temperature")
17 if((Temperature>40)&(Humidity>65)):
18     print("Humidity Value is HIGH!!! ")
19     print("Check Humidity")
20 if((Temperature>40)&(Humidity>65)):
21     print("All Values are in limit!!! ")
22     print("SAFE ZONE")

```

```

Temperature:
25
Humidity:
54
All Values are in limit!!!
SAFE ZONE

```