

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)&(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 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("Tempertaure 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:
13
Humidity:
94
Humidity Value is HIGH!!!
Check Humidity
```

```
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("Tempertaure 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 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("Tempertaure 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
Tempertaure 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

```