Assignment -2

Python Programming

Assignment Date	19 September 2022
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Student Roll Number	917719D033
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("Tempertaure Value is HIGH!!! ")
 print("Check Temperature")
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 :

```
'''
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("Tempertaure Value is HIGH!!! ")
 print("Check Temperature")
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")
```

```
Temperature:
13
Humidity:
94
Humidity Value is HIGH!!!
Check Humidity
```

```
'''
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("Tempertaure Value is HIGH!!! ")
 print("Check Temperature")
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")
```

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

```
'''
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)
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print(Humidity)
if((Temperature>40)&(Humidity>65)):
 print("Values are HIGH!!! ")
 print("ALERT")
if((Temperature>40)&(Humidity<65)):
 print("Tempertaure Value is HIGH!!! ")
 print("Check Temperature")
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")
```

```
Temperature:
80
Humidity:
31
Tempertaure Value is HIGH!!!
Check Temperature
```

```
'''
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("Tempertaure Value is HIGH!!! ")
 print("Check Temperature")
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")
```

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