ASSIGNMENT – 2

PYTHON PROGRAMMING

Assignment Date	19 September 2022
Student Name	Navaneethan M
Student Roll Number	73771914141
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!!! ")

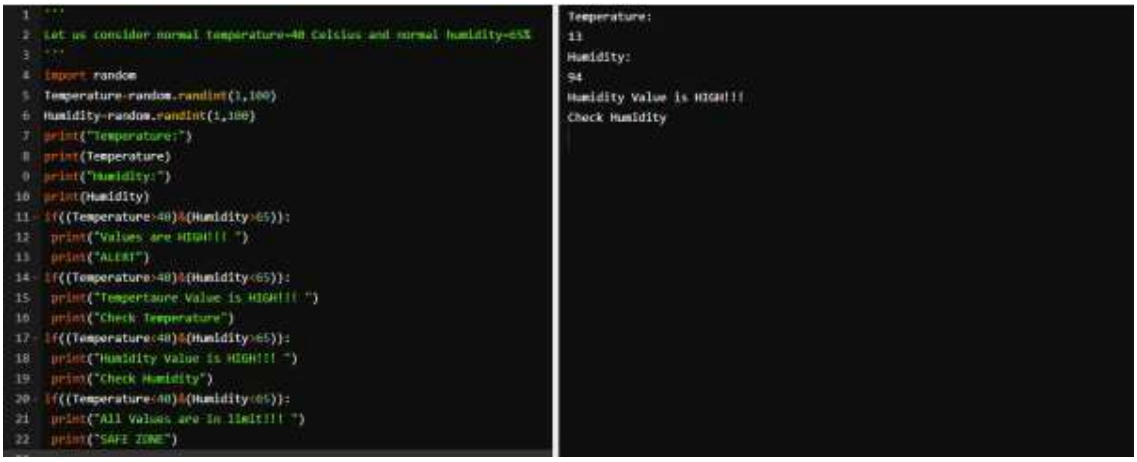
        print("Check Humidity")

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

        print(“All Values are in limit!!!”)

        print(“SAFE ZONE”)
```

OUTPUT:



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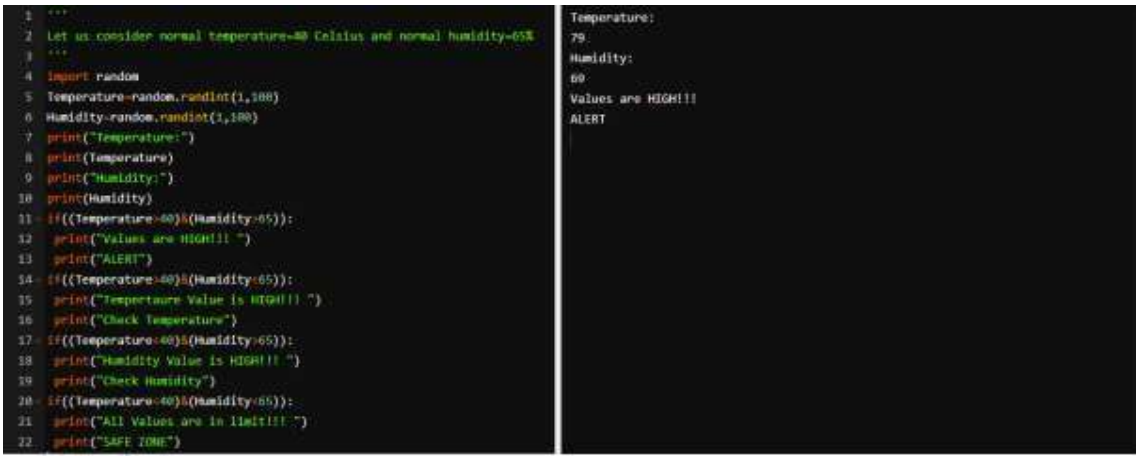
 print("Values are HIGH!!! ")
 print("ALERT")
if((Temperature>40)&(Humidity<65)):
 print("Tempertaure Value is HIGH!!! ")
 print("Check Temperature")
if((Temperature<40)&(Humidity>65)):
 print("Humidity Value is HIGH!!! ")
 print("Check Humidity")
if((Temperature<40)&(Humidity<65)):
 print("All Values are In limit!!! ")
 print("SAFE ZONE")
```

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



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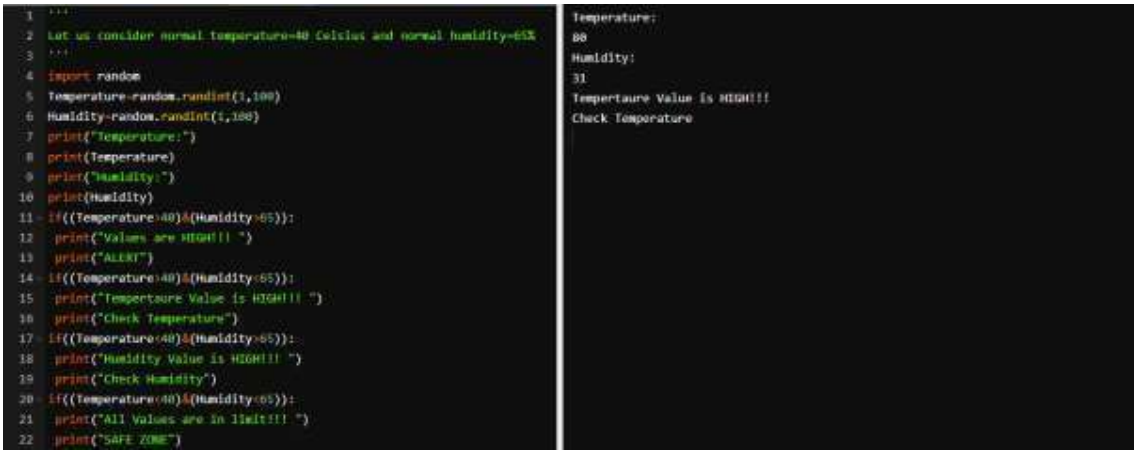
 print("Tempertaure Value is HIGH!!! ")
 print("Check Temperature")
if((Temperature<40)&(Humidity>65)):
 print("Humidity Value is HIGH!!! ")
 print("Check Humidity")
if((Temperature<40)&(Humidity<65)):
 print("All Values are In limit!!! ")
 print("SAFE ZONE")
```

```
Temperature:
79
Humidity:
60
Values are HIGH!!!
ALERT
```



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 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
```

```
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 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
```