

Assignment -2
Python Programming

Question-1:

Build a python code, Assume u get temperature and humidity values (generated with random function to a variable) and write a condition to continuously detect alarm in case of high temperature.

Solution:

```
Import random
```

```
Temperature = random.sample(range(0,120) , 10)
```

```
print ("Temperature Data=", Temperature)
```

```
Humidity=random.sample(range(40,90), 10)
```

```
print("Humidity Data=", Humidity)
```

For i in Temperature:

if(i>80);

{

print(f"{i} Exceeds Normal Temperature . Alarm Detected")

}

OUTPUT:

```
main.py
1 import random
2
3 Temperature = random.sample(range(0, 120), 10)
4 print("Temperature data = ", Temperature)
5 Humidity = random.sample(range(40, 90), 10)
6 print("Humidity data = ", Humidity)
7
8 for i in Temperature:
9     if(i>80):
10         {
11             print(f"{i} Exceeds Normal temperature. Alarm Detected")
12         }
13
```

input

```
Temperature data = [36, 113, 33, 0, 109, 110, 30, 78, 16, 90]
Humidity data = [84, 76, 82, 50, 65, 66, 44, 75, 56, 68]
113 Exceeds Normal temperature. Alarm Detected
109 Exceeds Normal temperature. Alarm Detected
110 Exceeds Normal temperature. Alarm Detected
90 Exceeds Normal temperature. Alarm Detected

...Program finished with exit code 0
Press ENTER to exit console.
```