

Assignment -2

Assignment Date	27 September 2022
Student Name	Vinothkumar S
Student Roll Number	620119104117
Maximum Marks	2 Marks

Question:

Build a python code, assume you 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.

Code:

```
import random

while(True):

    x=random.randint(10,99)

    y=random.randint(10,99)

    if(x>40 and y>70):

        print("High Temprature of ",x,"and Humidity of:",y, "alarm is ON")

    elif(x<30 and y<55):

        print("High Temprature of ",x,"and Humidity of:",y, "alarm is OFF")
```

Output:

```
High Temperature of 11 and Humidity of: 16 alarm is OFF
High Temperature of 13 and Humidity of: 54 alarm is OFF
High Temperature of 60 and Humidity of: 76 alarm is ON
High Temperature of 92 and Humidity of: 74 alarm is ON
High Temperature of 12 and Humidity of: 19 alarm is OFF
High Temperature of 43 and Humidity of: 83 alarm is ON
High Temperature of 56 and Humidity of: 77 alarm is ON
High Temperature of 69 and Humidity of: 72 alarm is ON
High Temperature of 45 and Humidity of: 87 alarm is ON
High Temperature of 87 and Humidity of: 92 alarm is ON
High Temperature of 90 and Humidity of: 88 alarm is ON
High Temperature of 95 and Humidity of: 98 alarm is ON
High Temperature of 94 and Humidity of: 73 alarm is ON
High Temperature of 26 and Humidity of: 40 alarm is OFF
High Temperature of 81 and Humidity of: 95 alarm is ON
High Temperature of 22 and Humidity of: 43 alarm is OFF
High Temperature of 58 and Humidity of: 76 alarm is ON
High Temperature of 89 and Humidity of: 83 alarm is ON
High Temperature of 74 and Humidity of: 72 alarm is ON
High Temperature of 73 and Humidity of: 95 alarm is ON
High Temperature of 48 and Humidity of: 79 alarm is ON
High Temperature of 90 and Humidity of: 77 alarm is ON
High Temperature of 16 and Humidity of: 48 alarm is OFF
High Temperature of 71 and Humidity of: 72 alarm is ON
High Temperature of 96 and Humidity of: 98 alarm is ON
High Temperature of 21 and Humidity of: 52 alarm is OFF
High Temperature of 43 and Humidity of: 74 alarm is ON
High Temperature of 77 and Humidity of: 80 alarm is ON
High Temperature of 13 and Humidity of: 22 alarm is OFF
High Temperature of 14 and Humidity of: 33 alarm is OFF
High Temperature of 80 and Humidity of: 87 alarm is ON
High Temperature of 71 and Humidity of: 92 alarm is ON
High Temperature of 14 and Humidity of: 44 alarm is OFF
High Temperature of 22 and Humidity of: 13 alarm is OFF
High Temperature of 61 and Humidity of: 91 alarm is ON
High Temperature of 23 and Humidity of: 52 alarm is OFF
High Temperature of 15 and Humidity of: 40 alarm is OFF
High Temperature of 90 and Humidity of: 71 alarm is ON
High Temperature of 81 and Humidity of: 77 alarm is ON
High Temperature of 57 and Humidity of: 93 alarm is ON
```

```
import random
while(True):
    x=random.randint(10,99)
    y=random.randint(10,99)
    if(x>40 and y>70):
        print("High Temperature of ",x,"and Humidity of:",y, "alarm is ON")
    elif(x<30 and y<55):
        print("High Temperature of ",x,"and Humidity of:",y, "alarm is OFF")
```