

ASSIGNMENT II

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Assignment : 2

Question :

Build a python code, Assume a 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
import time
```

```
while True:
```

```
    temp = random.randint(-100,100)
    humidity = random.randint(0,100)
    print("Temperature is ",temp)
    print("Humidity is ",humidity)
```

```
    if temp>70:
```

```
        print("Temperature is high")
        print("Alarm is on")
```

```
    elif temp<20:
```

```
        print("Temperature is low")
        print("Alarm is on")
```

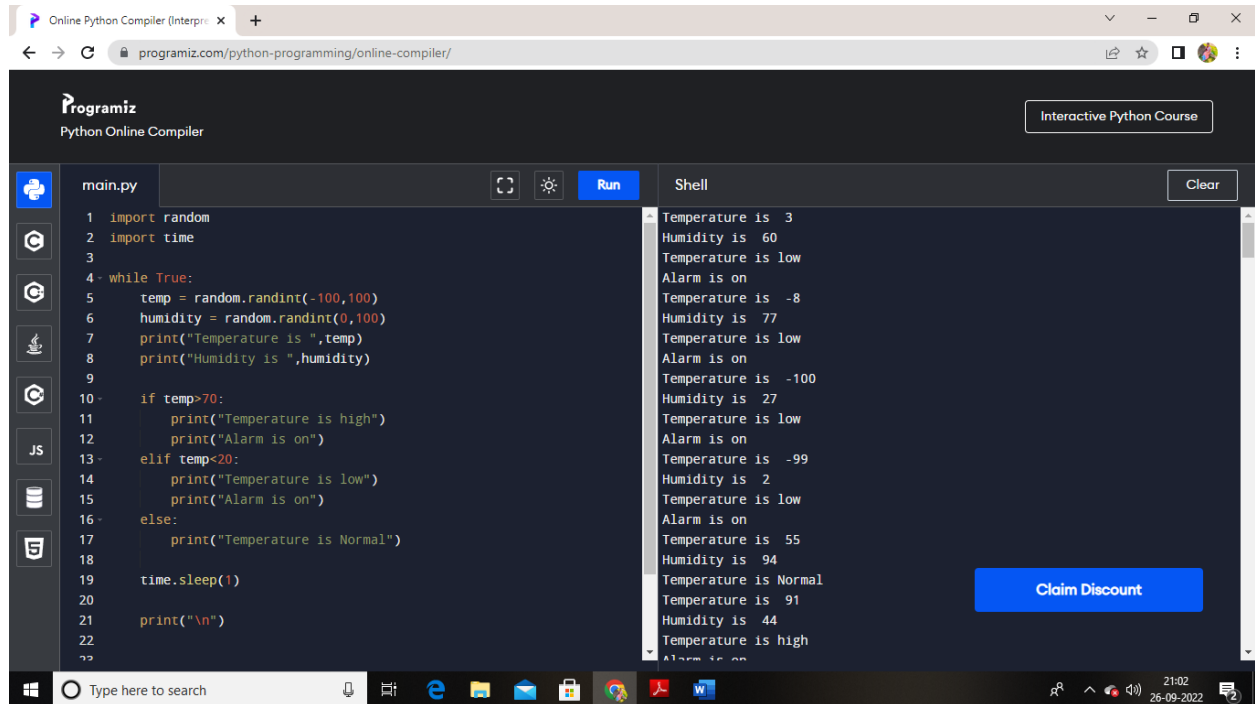
```
    else:
```

```
        print("Temperature is Normal")
```

```
    time.sleep(1)
```

```
    print("\n")
```

OUTPUT:



The screenshot displays the Programiz Online Python Compiler interface. The left sidebar contains icons for various programming languages: Python, C, C++, Java, JavaScript, and others. The main editor area shows a Python script named `main.py` with the following code:

```
1 import random
2 import time
3
4 while True:
5     temp = random.randint(-100,100)
6     humidity = random.randint(0,100)
7     print("Temperature is ",temp)
8     print("Humidity is ",humidity)
9
10    if temp>70:
11        print("Temperature is high")
12        print("Alarm is on")
13    elif temp<20:
14        print("Temperature is low")
15        print("Alarm is on")
16    else:
17        print("Temperature is Normal")
18
19    time.sleep(1)
20
21    print("\n")
22
```

The right panel, labeled "Shell", shows the output of the script:

```
Temperature is 3
Humidity is 60
Temperature is low
Alarm is on
Temperature is -8
Humidity is 77
Temperature is low
Alarm is on
Temperature is -100
Humidity is 27
Temperature is low
Alarm is on
Temperature is -99
Humidity is 2
Temperature is low
Alarm is on
Temperature is 55
Humidity is 94
Temperature is Normal
Temperature is 91
Humidity is 44
Temperature is high
Alarm is on
```

A "Claim Discount" button is visible in the bottom right corner of the Shell panel. The browser's address bar shows the URL `programiz.com/python-programming/online-compiler/`. The Windows taskbar at the bottom indicates the time is 21:02 on 26-09-2022.