

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.

PROGRAM:

```
while(1):
```

```
    import random
```

```
    temperature=random.randint(0,100)
```

```
    humidity=random.randint(0,100)
```

```
    print("Temperature:",temperature)
```

```
    print("Humidity:",humidity)
```

```
    if((temperature>30)and(humidity>60)) :
```

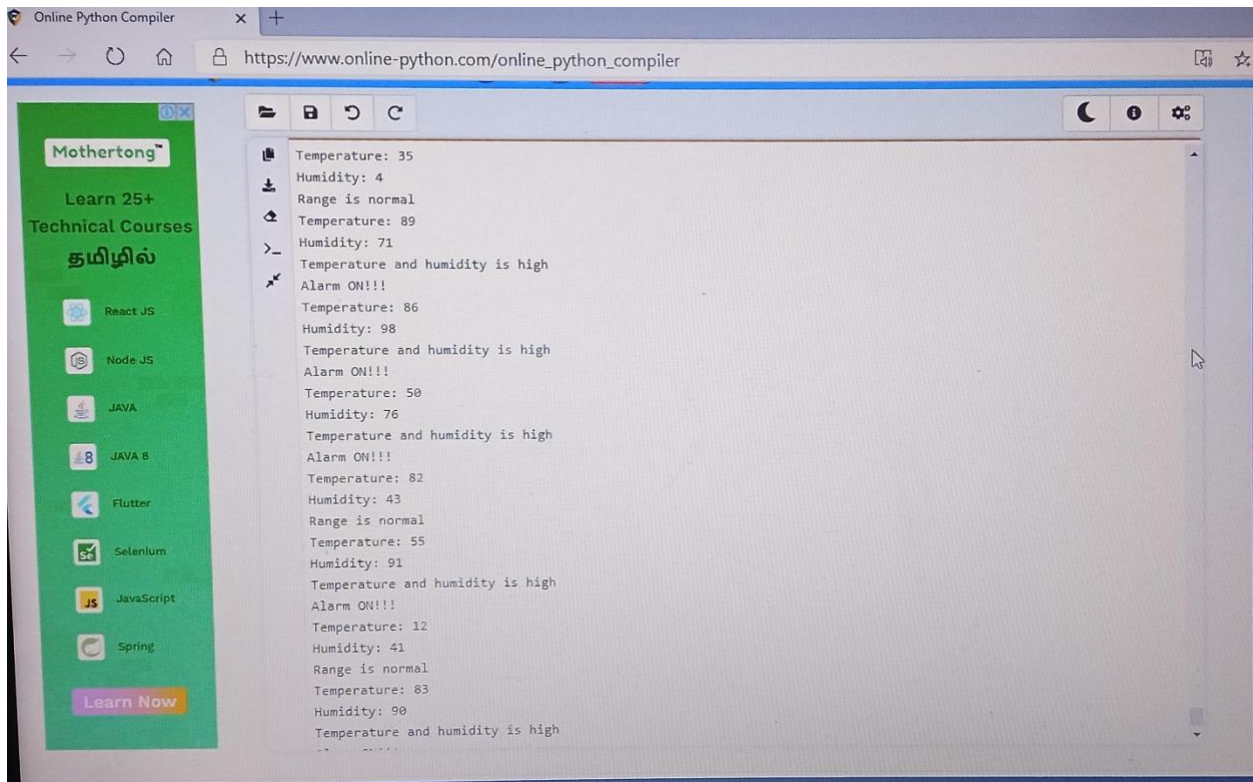
```
        print ("Temperature and humidity is high")
```

```
        print("Alarm ON!!!")
```

```
    else:
```

```
        print("Range is normal")
```

OUTPUT:



The screenshot shows a web browser window with the URL https://www.online-python.com/online_python_compiler. On the left, there is a sidebar for 'Mohtertong' with a list of technical courses in Tamil: React JS, Node JS, JAVA, JAVA 8, Flutter, Selenium, JavaScript, and Spring. The main area displays the output of a Python program that monitors temperature and humidity. The output consists of multiple lines of text, including temperature and humidity readings, range status, and alarm messages.

```
Temperature: 35
Humidity: 4
Range is normal
Temperature: 89
Humidity: 71
Temperature and humidity is high
Alarm ON!!!
Temperature: 86
Humidity: 98
Temperature and humidity is high
Alarm ON!!!
Temperature: 50
Humidity: 76
Temperature and humidity is high
Alarm ON!!!
Temperature: 82
Humidity: 43
Range is normal
Temperature: 55
Humidity: 91
Temperature and humidity is high
Alarm ON!!!
Temperature: 12
Humidity: 41
Range is normal
Temperature: 83
Humidity: 90
Temperature and humidity is high
```