

ASSIGNMENT -2

Name: Shobana P

Topic: Assignment on temperature and humidity sensing and alarm automation using python

Code:

```
from random import randint

def generating_tempvalue():
    return randint(1,150)

def generating_humidityvalue():
    return randint(1,150)

random_tempvalue = generating_tempvalue()
print("The value of temperature is:",random_tempvalue)
random_humidityvalue = generating_humidityvalue()
print("The value of humidity is:",random_humidityvalue)

if random_tempvalue>80:
    print("High temperature detected")
    if random_humidityvalue>90:
        print("High humidity\n*****ALERT SIGNAL*****")
    else:
        print("High temperature detected")
elif random_tempvalue==80:
    print("Temperature is at maximum level")
```

else:

```
print("Normal")
```

OUTPUT:



The screenshot displays an online Python compiler interface. The top bar includes buttons for Run, Debug, Stop, Share, Save, and Beautify, along with a language dropdown set to Python 3. The main editor area shows a Python script named 'main.py' with the following code:

```
1
2
3         Online Python Compiler.
4         Code, Compile, Run and Debug python program online.
5         Write your code in this editor and press "Run" button to execute it.
6
7     '''
8     from random import randint
9
10    def generating_tempvalue():
11        return randint(1,150)
12    def generating_humidityvalue():
13        return randint(1,150)
14
15    random_tempvalue = generating_tempvalue()
16    print("The value of temperature is:",random_tempvalue)
17    random_humidityvalue = generating_humidityvalue()
18    print("The value of humidity is:",random_humidityvalue)
19
20    if random_tempvalue>80:
21        print("High temperature detected")
22        if random_humidityvalue>90:
23            print("High humidity\n*****ALERT SIGNAL*****")
24        else:
25            print("High temperature detected")
26    elif random_tempvalue==80:
27        print("Temperature is at maximum level")
28    else:
29        print("Normal")
```

Below the editor, the 'input' section shows the program's output:

```
The value of temperature is: 14
The value of humidity is: 41
Normal

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