

ASSIGNMENT -2

Name: Sushen sharma

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")
```

The output console at the bottom shows the execution results:

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

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