

## ASSIGNMENT -2

**Name:** Indu

**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")
```

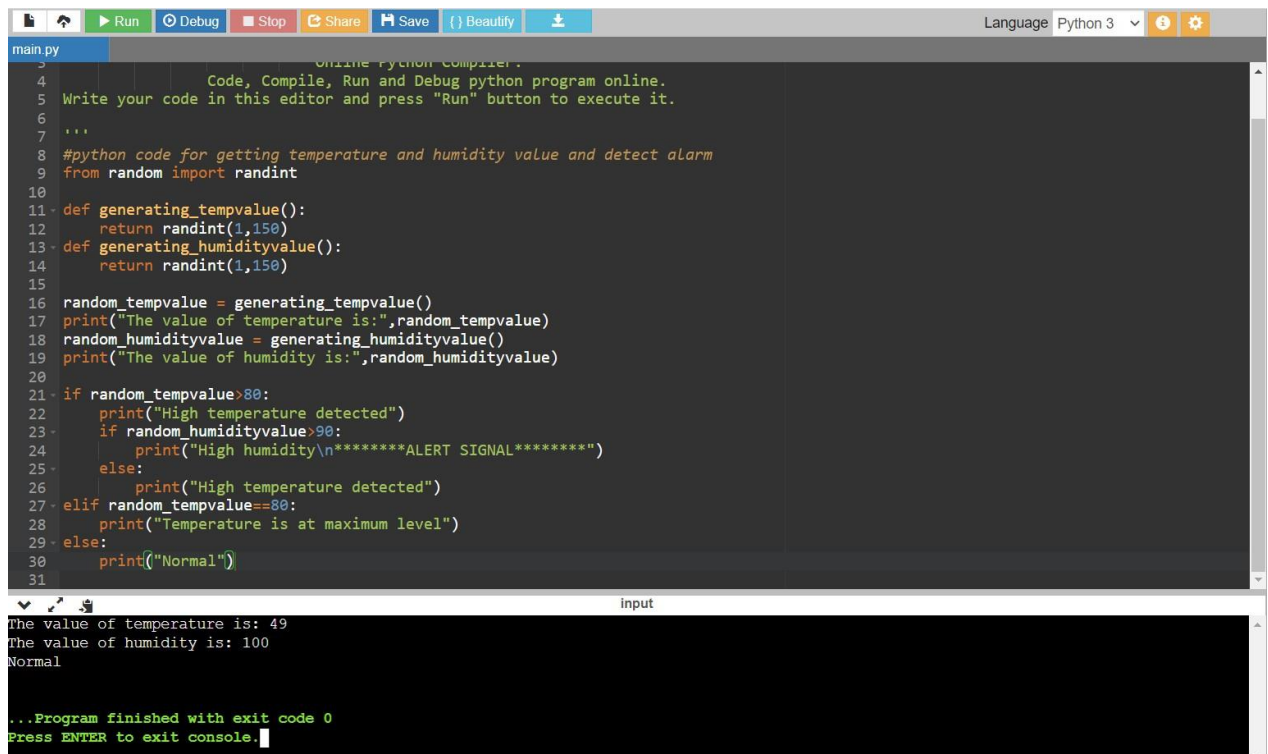
```
elif random_tempvalue==80:
```

```
print("Temperature is at maximum level")
```

else:

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

## output



The screenshot shows 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 contains a Python script that generates random temperature and humidity values and checks for alerts. The output console at the bottom shows the execution results.

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

input

```
The value of temperature is: 49
The value of humidity is: 100
Normal

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