

ASSIGNMENT 2

Date	24 September 2022
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Roll Number	718019L250
Project Name	Project – Smart Farmer-IoT Enabled Smart Farming Application
Maximum Marks	2 Marks

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")
```

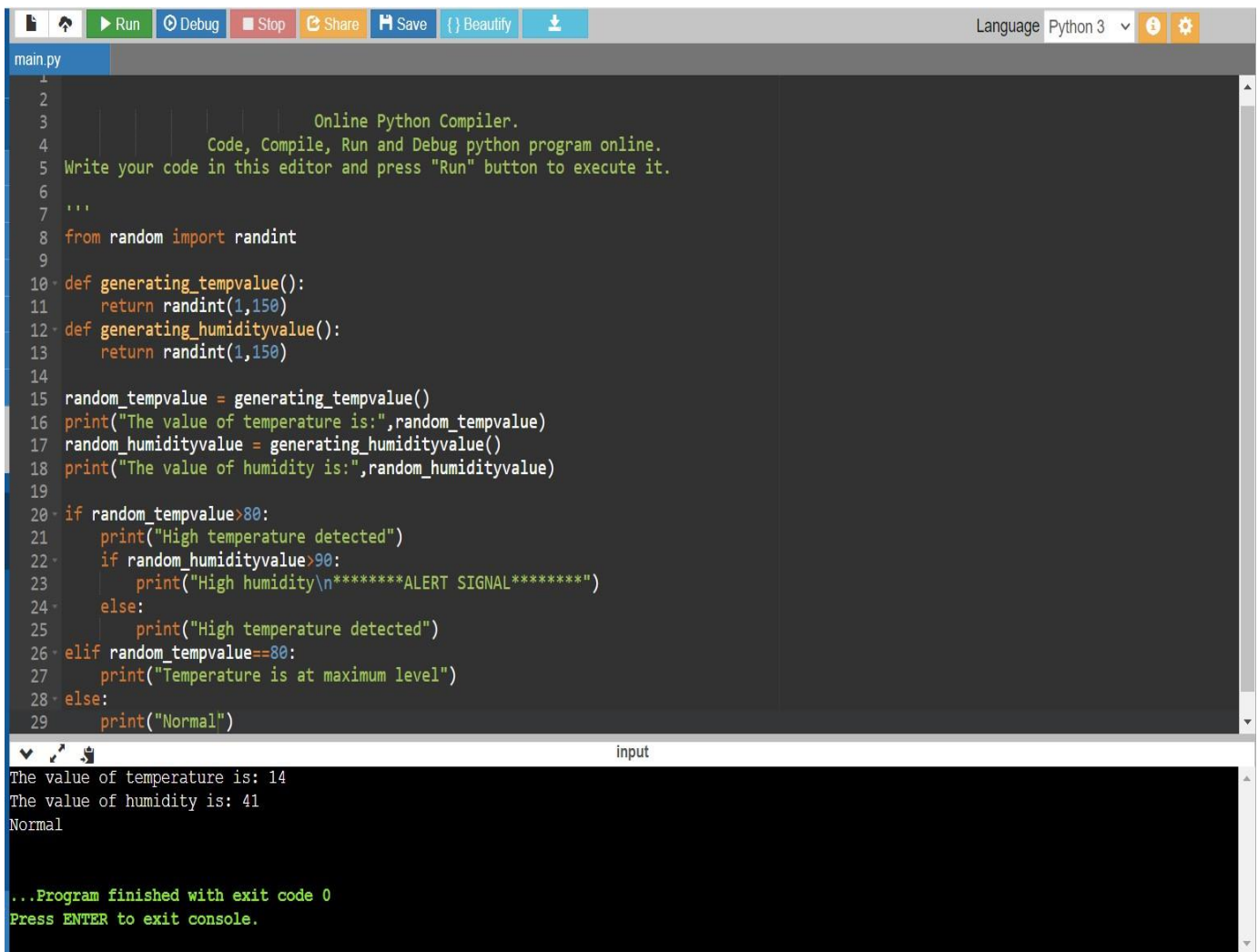
```
elif random_tempvalue==80:
```

```
    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, Beautify, and a download icon. The language is set to Python 3. The code editor shows a file named 'main.py' with the following Python 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, labeled 'input', shows the execution results:

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

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