

Assignment - 2

Python Code

Assignment Date	25 September 2022
Student Name	Mr. Premnath
Student Roll Number	910819104008
Maximum Marks	2 Marks

Question-1:

Build a python code, Assume u get temperature and humidity values (generated with a random function to a variable) and write a condition to detect an alarm in case of high temperature continuously.

Solution:

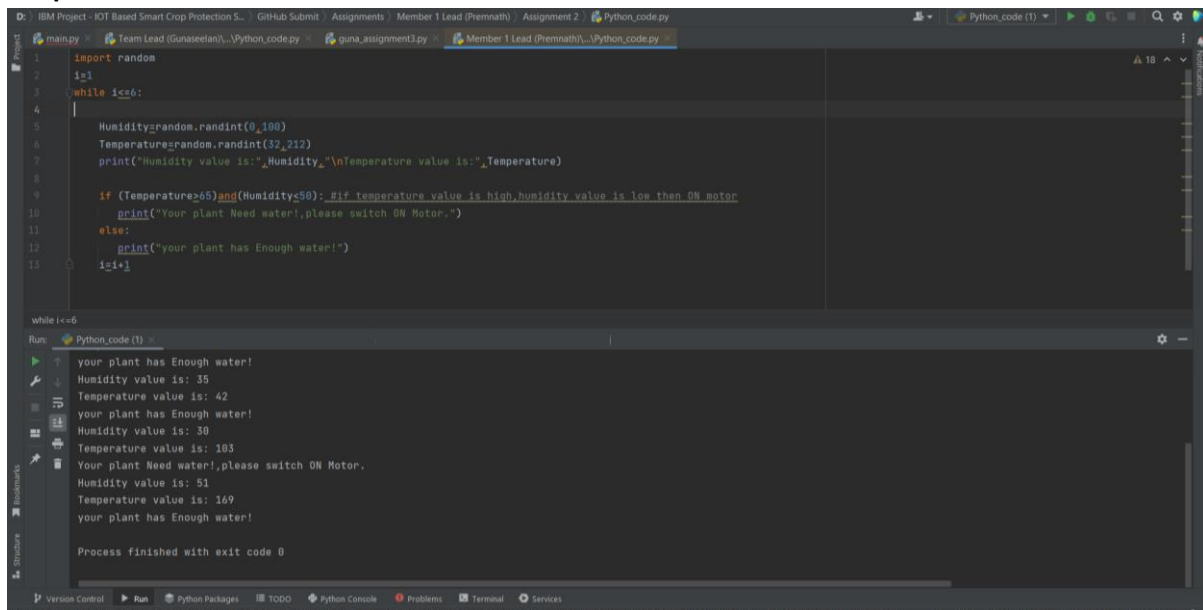
Code:

```
import random
i=1
while i<=6:

    Humidity=random.randint(0,100)
    Temperature=random.randint(32,212)
    print("Humidity value is:",Humidity,"\nTemperature value is:",Temperature)

    if (Temperature>65)and(Humidity<50): #if temperature value is high,humidity value is low then
ON motor
        print("Your plant Need water!,please switch ON Motor.")
    else:
        print("your plant has Enough water!")
    i=i+1
```

Output:



The screenshot displays a code editor with a Python script and its execution output. The script generates random humidity and temperature values and checks if the temperature is high and humidity is low to trigger a motor. The output shows six iterations of these values and the corresponding messages.

```
1 import random
2 i=1
3 while i<=6:
4
5     Humidity=random.randint(0,100)
6     Temperature=random.randint(32,212)
7     print("Humidity value is:","Humidity","\nTemperature value is:","Temperature")
8
9     if (Temperature>65)and(Humidity<50):_if temperature value is high,humidity value is low then ON motor
10        print("Your plant Need water!,please switch ON Motor.")
11    else:
12        print("your plant has Enough water!")
13    i=i+1
```

while i<=6

your plant has Enough water!
Humidity value is: 35
Temperature value is: 42
your plant has Enough water!
Humidity value is: 30
Temperature value is: 103
Your plant Need water!,please switch ON Motor.
Humidity value is: 51
Temperature value is: 169
your plant has Enough water!

Process finished with exit code 0