

Assignment -2

Python Programming

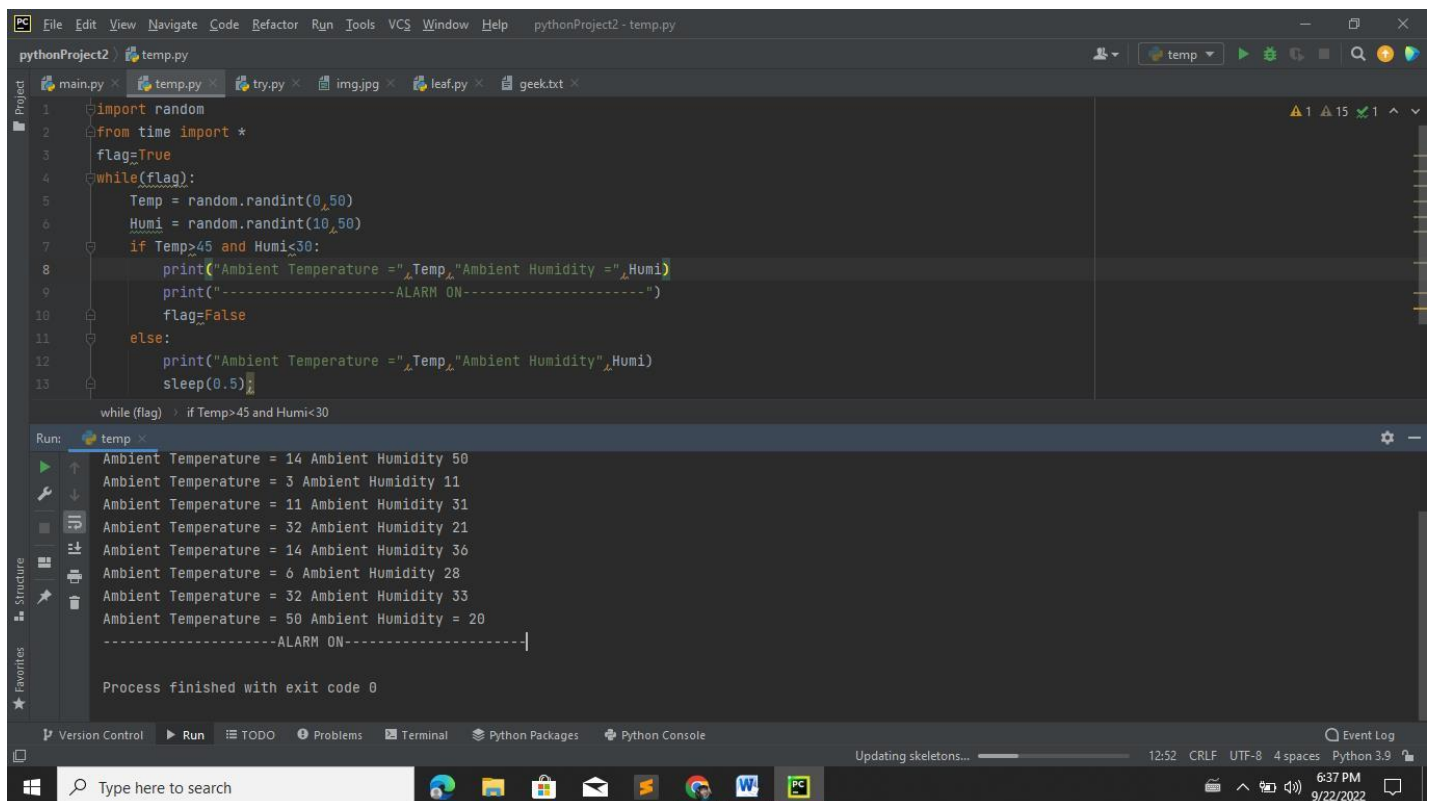
Assignment Date	22 September 2022
Student Name	K.K.BHUVANESH
Student Roll Number	910619106301
Maximum Marks	2 Marks

Question-1:

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

Solution:

```
import random
from time import *
flag=True
while(flag):
    Temp = random.randint(0,50)
    Humi = random.randint(10,50)
    if Temp>45 and Humi<30:
        print("Ambient Temperature =",Temp,"Ambient Humidity =",Humi)
        print("-----ALARM ON-----")
        flag=False
    else:
        print("Ambient Temperature =",Temp,"Ambient Humidity",Humi)
        sleep(0.5);
```



The screenshot shows a Python IDE with a file named 'temp.py' open. The code in the editor is as follows:

```
1 import random
2 from time import *
3 flag=True
4 while(flag):
5     Temp = random.randint(0,50)
6     Humi = random.randint(10,50)
7     if Temp>45 and Humi<30:
8         print("Ambient Temperature =",Temp,"Ambient Humidity =",Humi)
9         print("-----ALARM ON-----")
10        flag=False
11    else:
12        print("Ambient Temperature =",Temp,"Ambient Humidity",Humi)
13        sleep(0.5);
```

The 'Run' console at the bottom shows the output of the program:

```
Ambient Temperature = 14 Ambient Humidity 50
Ambient Temperature = 3 Ambient Humidity 11
Ambient Temperature = 11 Ambient Humidity 31
Ambient Temperature = 32 Ambient Humidity 21
Ambient Temperature = 14 Ambient Humidity 36
Ambient Temperature = 6 Ambient Humidity 28
Ambient Temperature = 32 Ambient Humidity 33
Ambient Temperature = 50 Ambient Humidity = 20
-----ALARM ON-----
Process finished with exit code 0
```

The status bar at the bottom indicates the file is 'temp.py', the encoding is 'UTF-8', and the Python version is 'Python 3.9'.