Assignment -2

Python Programming

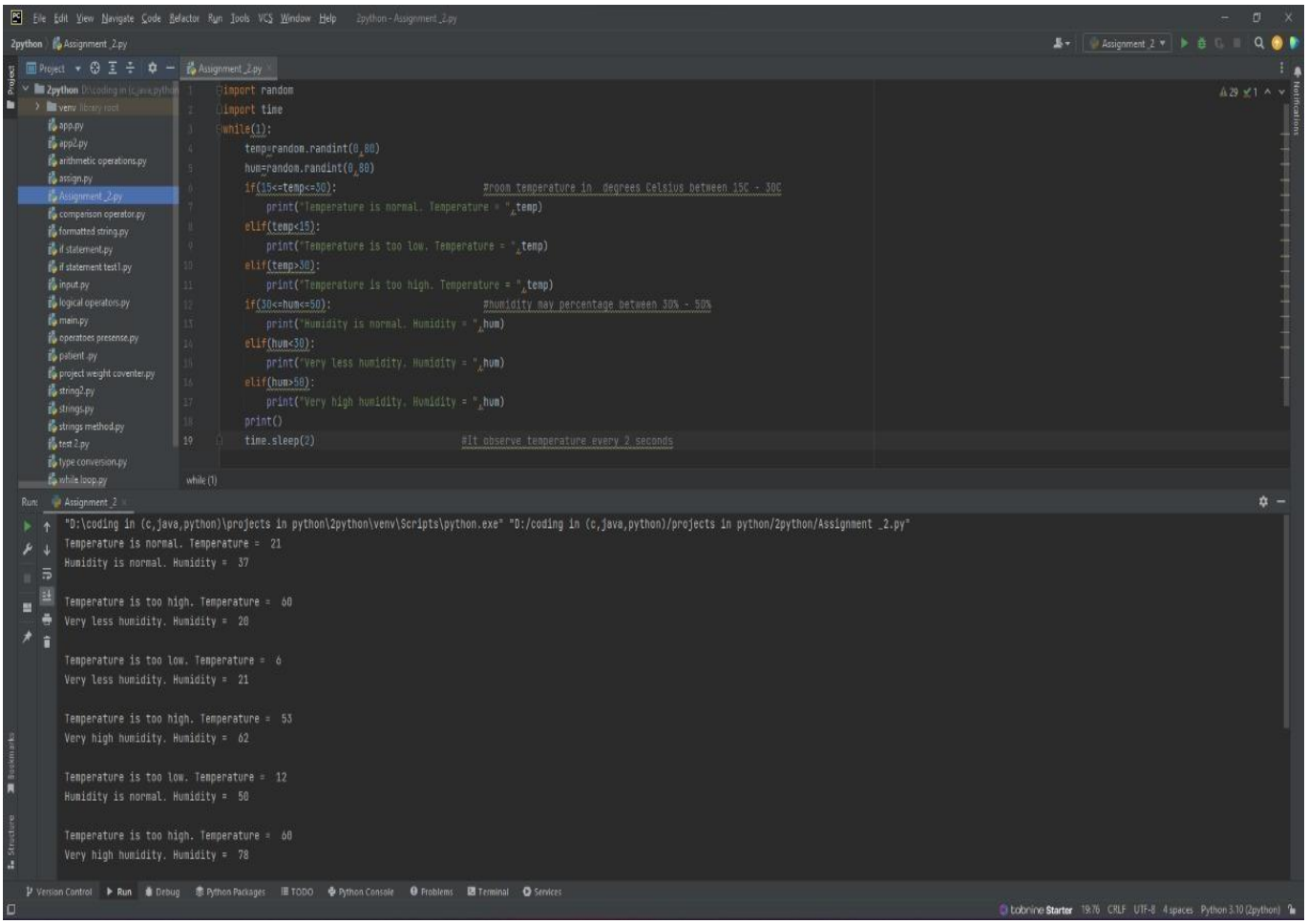
Assignment Date	**24 September 2022**
Student Name	**P. JYOTHISH**
Student Roll Number	**MECR19EC148**
Maximum Marks	**2 Marks**

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
import time
while(1):
   temp=random.randint(0,80) hum=random.randint(0,80) if(15<=temp<=30):
   #room temperature in  degrees Celsius between
15C - 30C print("Temperature is normal. Temperature =
      ",temp)
   elif(temp<15): print("Temperature is too low.
      Temperature = ",temp)
   elif(temp>30):
      print("Temperature is too high. Temperature = ",temp)
   if(30<=hum<=50):                    #humidity may percentage between 30% - 50%
      print("Humidity is normal. Humidity = ",hum)
   elif(hum<30): print("Very less humidity.
      Humidity = ",hum)
   elif(hum>50):
      print("Very high humidity. Humidity = ",hum)
   print() time.sleep(2)                    #It observe temperature every 2
   seconds SAMPLE INPUT AND OUTPUT :
```


import random
import time
while(1):
temp=random.randint(0,80)
hum=random.randint(0,80)
if(15<=temp<=30):
#room temperature in degrees Celsius between 15C - 30C
print("Temperature is normal. Temperature = ",temp)
elif(temp<15):
print("Temperature is too low. Temperature = ",temp)
elif(temp>30):
print("Temperature is too high. Temperature = ",temp)
if(30<=hum<=50):
#humidity may percentage between 30% - 50%
print("Humidity is normal. Humidity = ",hum)
elif(hum<30):
print("Very less humidity. Humidity = ",hum)
elif(hum>50):
print("Very high humidity. Humidity = ",hum)
print()
time.sleep(2)
#It observe temperature every 2 seconds
"D:\coding in (c,java,python)\projects in python\2python\venv\Scripts\python.exe" "D:/coding in (c,java,python)/projects in python/2python/Assignment _2.py"
Temperature is normal. Temperature = 21
Humidity is normal. Humidity = 37
Temperature is too high. Temperature = 60
Very less humidity. Humidity = 28
Temperature is too low. Temperature = 6
Very less humidity. Humidity = 21
Temperature is too high. Temperature = 53
Very high humidity. Humidity = 62
Temperature is too low. Temperature = 12
Humidity is normal. Humidity = 50
Temperature is too high. Temperature = 60
Very high humidity. Humidity = 78