Assignment -2

Python Programming

Assignment Date	24September 2022
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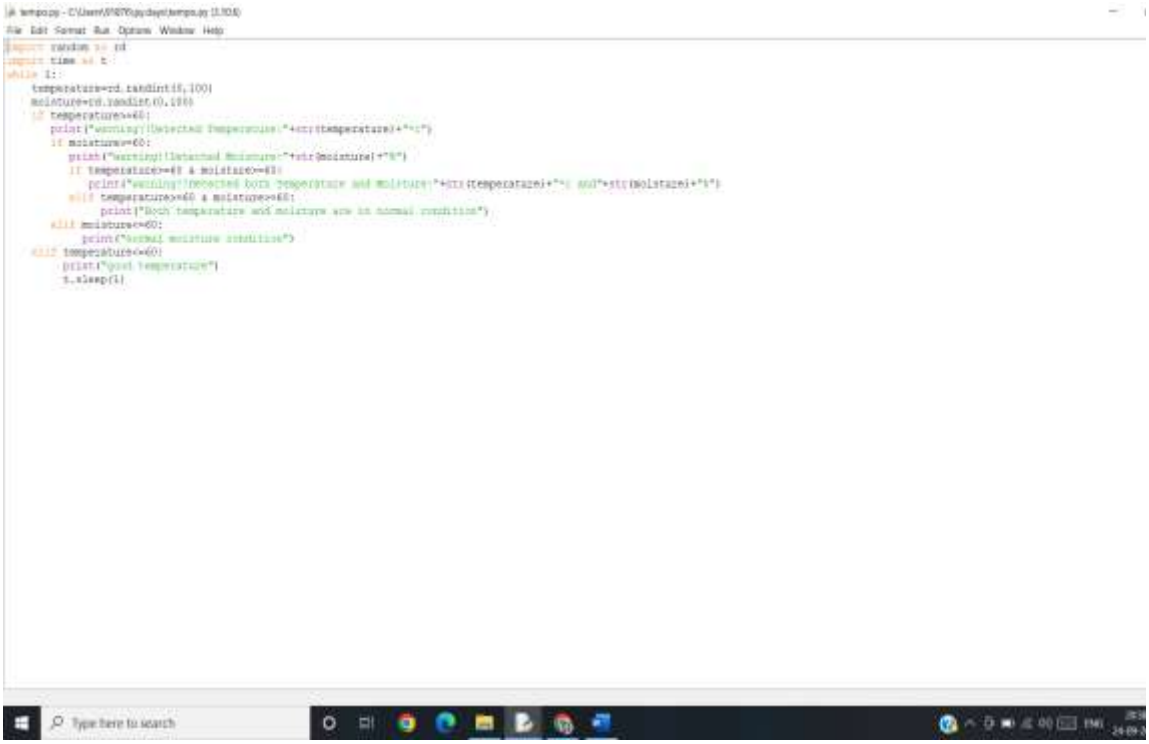
Student Roll Number	820419106004
Maximum Marks	2 Mark

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 as rd

import time as t

while 1:

   temperature=rd.randint(0,100)

   moisture=rd.randint(0,100)

   if temperature>=60:

     print("warning!!Detected Temperature:"+str(temperature)+"*c")

     if moisture>=60:

       print("warning!!Detected Moisture:"+str(moisture)+"%")

       if temperature>=60 & moisture>=60:

         print("warning!!Detected both Temperature and Moisture:"+str(temperature)+"*c
and"+str(moisture)+"%")

       elif temperature>=60 & moisture>=60:

           print("Both temperature and moisture are in normal condition")

     elif moisture<=60:

        print("normal moisture condition")

   elif temperature<=60:

      print("good temperature")

      t.sleep(1)
```


File Edit Format Run Options Window Help
import random as rd
import time as t
while 1:
temperature=rd.randint(0,100)
moisture=rd.randint(0,100)
if temperature>=60:
print("warning!!Detected Temperature:"+str(temperature)+"°c")
if moisture<=60:
print("warning!!Detected Moisture:"+str(moisture)+"%")
if temperature>=60 & moisture<=60:
print("warning!!Detected both temperature and Moisture:"+str(temperature)+"°c and"+str(moisture)+"%")
elif temperature>=60 & moisture>=60:
print("Both temperature and moisture are in normal condition")
elif moisture<=60:
print("normal moisture condition")
elif temperature<=60:
print("good temperature")
t.sleep(1)
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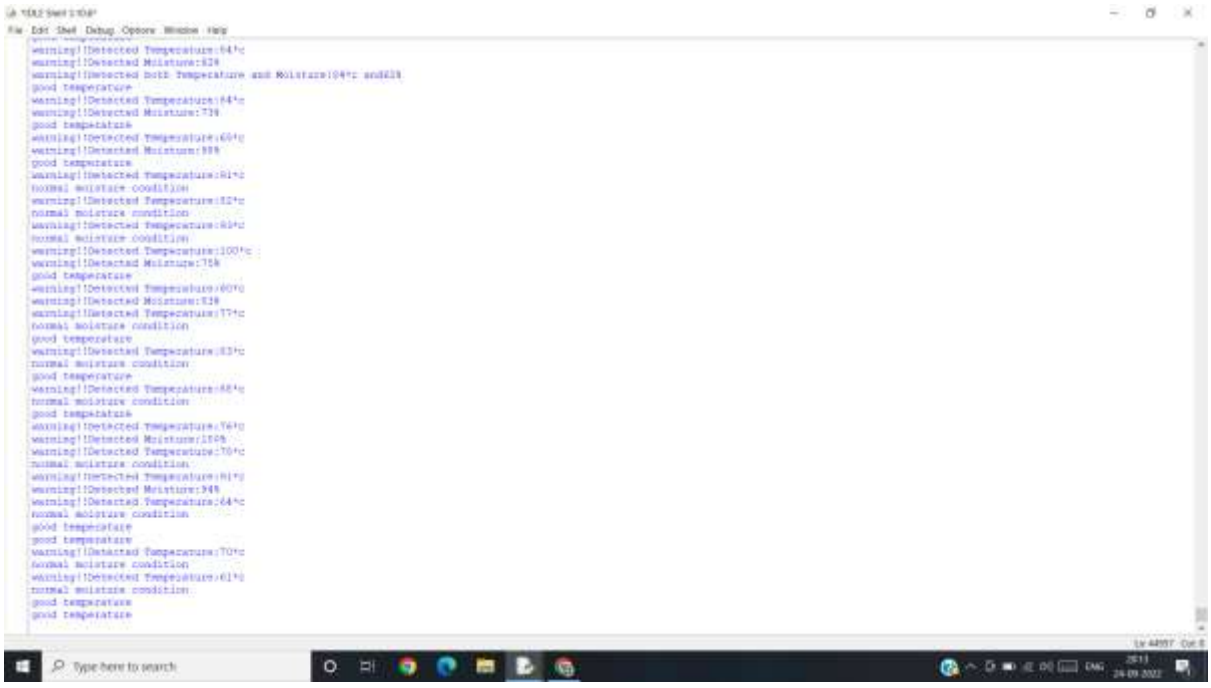
Output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warning!!Detected Temperature:84°c
warning!!Detected Moisture:828
warning!!Detected both Temperature and Moisture:84°c and828
good temperature
warning!!Detected Temperature:84°c
warning!!Detected Moisture:73%
good temperature
warning!!Detected Temperature:66°c
warning!!Detected Moisture:88%
good temperature
warning!!Detected Temperature:81°c
normal moisture condition
warning!!Detected Temperature:82°c
normal moisture condition
warning!!Detected Temperature:83°c
normal moisture condition
warning!!Detected Temperature:100°c
warning!!Detected Moisture:75%
good temperature
warning!!Detected Temperature:60°c
warning!!Detected Moisture:53%
warning!!Detected Temperature:77°c
normal moisture condition
good temperature
warning!!Detected Temperature:83°c
normal moisture condition
good temperature
warning!!Detected Temperature:68°c
normal moisture condition
good temperature
warning!!Detected Temperature:76°c
warning!!Detected Moisture:104%
warning!!Detected Temperature:70°c
normal moisture condition
warning!!Detected Temperature:81°c
warning!!Detected Moisture:94%
warning!!Detected Temperature:64°c
normal moisture condition
good temperature
good temperature
warning!!Detected Temperature:70°c
normal moisture condition
warning!!Detected Temperature:61°c
normal moisture condition
good temperature
good temperature
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