Date	22 September 2022
Student Name	ARSHA VARSHINEE.V
Student Register Number/Roll Number	211419106034/2019PECEC115
Maximum Marks	2 Marks

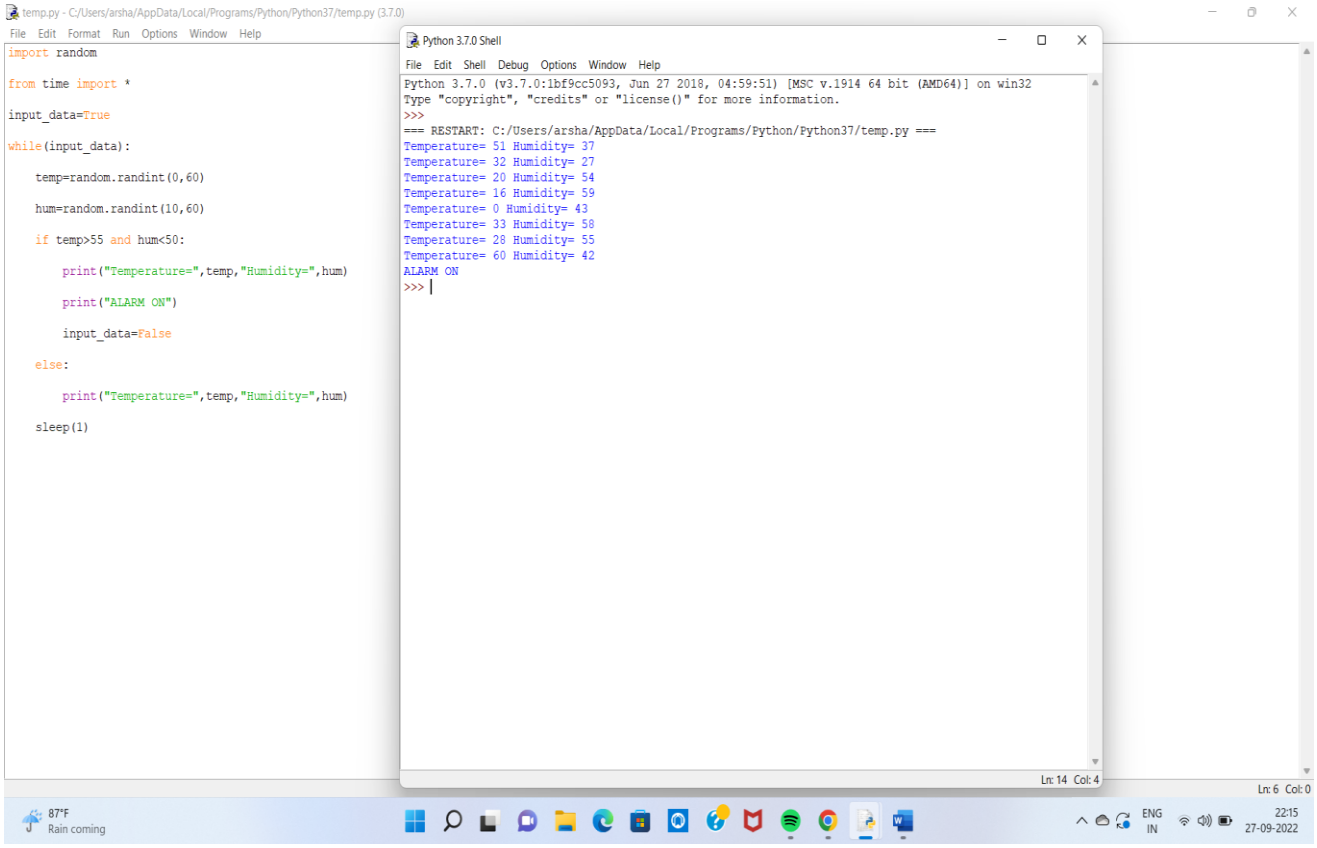
QUESTION-1:

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 *
input_data=True
while(input_data):
   temp=random.randint(0,60)
   hum=random.randint(10,60)
   if temp>55 and hum<50:
      print("Temperature=",temp,"Humidity=",hum)
      print("ALARM ON")
      input_data=False
  else:
      print("Temperature=",temp,"Humidity=",hum)
  sleep(1)
```

Output:


temp.py - C:/Users/arsha/AppData/Local/Programs/Python/Python37/temp.py (3.7.0)
File Edit Format Run Options Window Help
import random
from time import *
input_data=True
while(input_data):
temp=random.randint(0,60)
hum=random.randint(10,60)
if temp>55 and hum<50:
print("Temperature=",temp,"Humidity=",hum)
print("ALARM ON")
input_data=False
else:
print("Temperature=",temp,"Humidity=",hum)
sleep(1)
Ln: 6 Col: 0
Python 3.7.0 Shell
File Edit Shell Debug Options Window Help
Python 3.7.0 (v3.7.0:1bf9cc5093, Jun 27 2018, 04:59:51) [MSC v.1914 64 bit (AMD64)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
=== RESTART: C:/Users/arsha/AppData/Local/Programs/Python/Python37/temp.py ===
Temperature= 51 Humidity= 37
Temperature= 32 Humidity= 27
Temperature= 20 Humidity= 54
Temperature= 16 Humidity= 59
Temperature= 0 Humidity= 43
Temperature= 33 Humidity= 58
Temperature= 28 Humidity= 55
Temperature= 60 Humidity= 42
ALARM ON
>>>
Ln: 14 Col: 4
87°F
Rain coming
ENG
IN
22:15
27-09-2022