Assignment -2 Python
Programming

Assignment Date	24 September 2022
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 :
```

```python
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
```

Run:

```
"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 =  20

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
```