Assignment -2

Python Programming

Assignment Date	**24 September 2022**
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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 :