

**Assignment -2**  
Python Programming

Assignment Date	26 September 2022
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Student Roll Number	621319106083
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
# iterate the random values of Temperature and humidity within the specified range
while True:
    t = random.randint(25, 203)
    h = random.randint(0, 100)
    #print the values of Temperature and humidity
    print("Temp is: "+str(t)+"°F")
    print("Temp in celsius: "+str(((t-32)*5)//9)+"°C")
    print("The Humidity is: "+str(h) + "%")
    if (t>= 100):
        print("High Temperature Alert: "+str(t)+"°F")
        time.sleep(10)
#-----#
#-----#
```

<pre>File Edit Format Run Options Window Help import random import time  # iterate the random values of Temperature and humidity within the specified range while True:     t = random.randint(25, 203)     h = random.randint(0, 100)      #print the values of Temperature and humidity      print("Temp is: "+str(t)+"°F")     print("Temp in celsius: "+str(((t-32)*5)//9)+"°C")     print("The Humidity is: "+str(h) + "%")      # check if the temperature values are higher than 100°F      if (t &gt;= 100):         print("High Temp Alert: "+str(t)+"°F")         time.sleep(5)</pre>	<pre>File Edit Shell Debug Options Window Help Temp is: 176°F Temp in celsius: 80° The Humidity is: 8% High Temp Alert: 176°F Temp is: 45°F Temp in celsius: 7° The Humidity is: 39% Temp is: 117°F Temp in celsius: 47° The Humidity is: 93% High Temp Alert: 117°F Temp is: 191°F Temp in celsius: 88° The Humidity is: 17% High Temp Alert: 191°F Temp is: 46°F Temp in celsius: 7° The Humidity is: 48% Temp is: 169°F Temp in celsius: 76° The Humidity is: 65% High Temp Alert: 169°F Temp is: 201°F Temp in celsius: 93° The Humidity is: 58% High Temp Alert: 201°F Temp is: 164°F Temp in celsius: 73° The Humidity is: 33% High Temp Alert: 164°F Temp is: 124°F Temp in celsius: 51° The Humidity is: 19% High Temp Alert: 124°F Temp is: 117°F Temp in celsius: 47° The Humidity is: 23% High Temp Alert: 117°F Temp is: 100°F Temp in celsius: 37° The Humidity is: 48%</pre>
Line 20 Col 1	Line 241 Col 1