

Assignment -2

Python Programming

Assignment Date	19 September 2022
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Maximum Marks	2 Marks

Question-1:

Build a python code, assume you get temperature and humidity values (generate with random function to a variable) and write a condition to continuously detect alarm in case of high temperature.

Code:

```
import random

while (True):

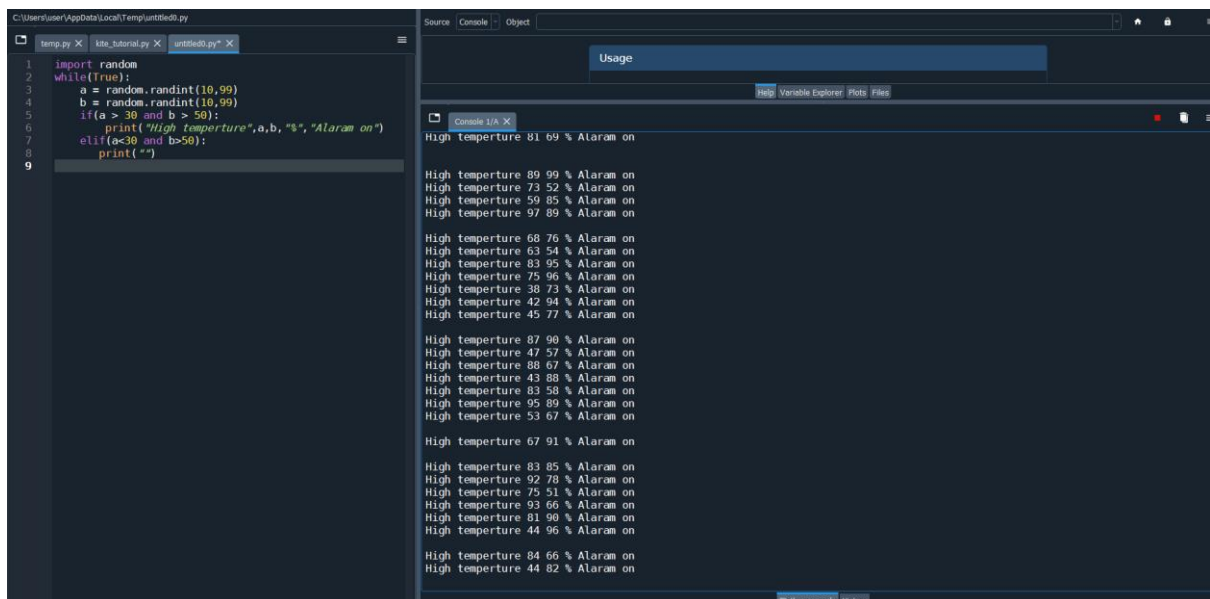
    t=random.randint(10,99)

    h=random.randint(10,99)

    if (t > 30 and h > 50):
        print ("High temperature", a, b," %", " Alarm on ")

    elif (t < 30 and h<50):
        print (" ")
```

Output:

The screenshot shows a Python IDE with a dark theme. On the left, the code editor displays the Python script. On the right, the console window shows the output of the program. The code generates random temperature and humidity values and prints an alarm message when both are high. The output shows multiple instances of the alarm being triggered with different values.

```
C:\Users\user\AppData\Local\Temp\untitled0.py
temp.py x  ksh_tutorial.py x  untitled0.py x

1 import random
2 while(True):
3     a = random.randint(10,99)
4     b = random.randint(10,99)
5     if(a > 30 and b > 50):
6         print("High temperature",a,b,"%", "Alarm on")
7     elif(a<30 and b<50):
8         print(" ")
9

Source  Console  Output
Usage
Help Variable Explorer Plots Files
Console 1/A x
High temperature 81 69 % Alarm on
High temperature 89 99 % Alarm on
High temperature 73 52 % Alarm on
High temperature 59 85 % Alarm on
High temperature 97 89 % Alarm on
High temperature 68 76 % Alarm on
High temperature 63 54 % Alarm on
High temperature 83 95 % Alarm on
High temperature 75 96 % Alarm on
High temperature 38 73 % Alarm on
High temperature 42 94 % Alarm on
High temperature 45 77 % Alarm on
High temperature 87 90 % Alarm on
High temperature 47 57 % Alarm on
High temperature 88 67 % Alarm on
High temperature 43 88 % Alarm on
High temperature 83 58 % Alarm on
High temperature 95 89 % Alarm on
High temperature 53 67 % Alarm on
High temperature 67 91 % Alarm on
High temperature 83 85 % Alarm on
High temperature 92 78 % Alarm on
High temperature 75 51 % Alarm on
High temperature 93 66 % Alarm on
High temperature 81 90 % Alarm on
High temperature 44 96 % Alarm on
High temperature 84 66 % Alarm on
High temperature 44 62 % Alarm on
```