

Assignment -2
Python Programming

Assignment Date	19 September 2022
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Maximum Marks	2 Marks

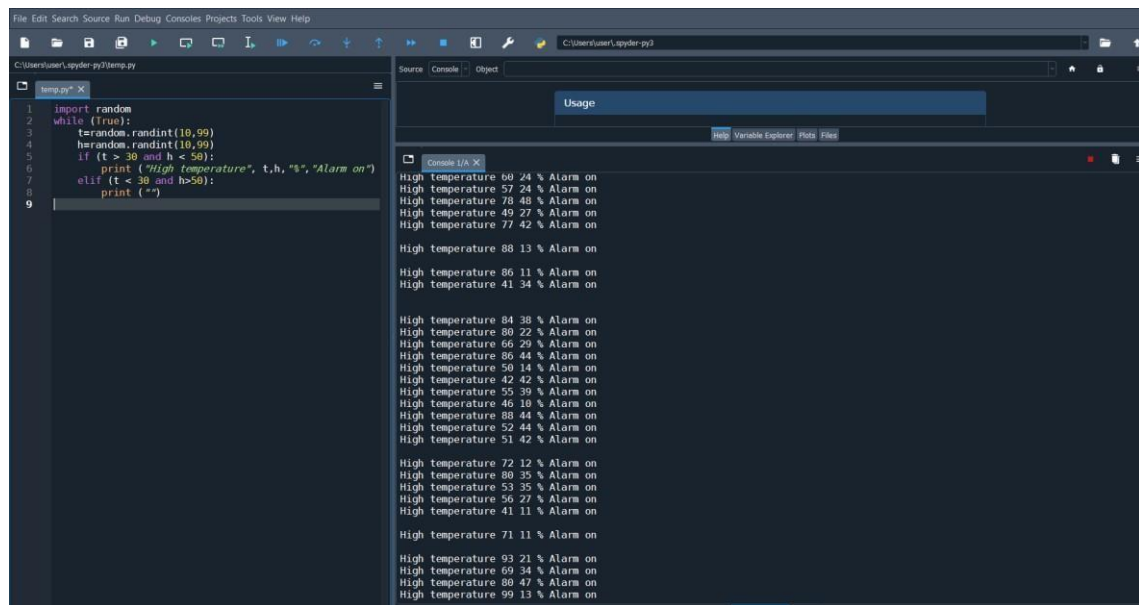
Question-1:

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 file named 'temp.py' open. The script in the editor is as follows:

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

The output window on the right displays the following text:

```
High temperature 60 24 % Alarm on
High temperature 57 24 % Alarm on
High temperature 78 48 % Alarm on
High temperature 49 27 % Alarm on
High temperature 77 42 % Alarm on

High temperature 88 13 % Alarm on

High temperature 86 11 % Alarm on
High temperature 41 34 % Alarm on

High temperature 84 38 % Alarm on
High temperature 80 22 % Alarm on
High temperature 66 29 % Alarm on
High temperature 86 44 % Alarm on
High temperature 50 14 % Alarm on
High temperature 42 42 % Alarm on
High temperature 55 39 % Alarm on
High temperature 46 10 % Alarm on
High temperature 88 44 % Alarm on
High temperature 52 44 % Alarm on
High temperature 51 42 % Alarm on

High temperature 72 12 % Alarm on
High temperature 80 35 % Alarm on
High temperature 53 35 % Alarm on
High temperature 56 27 % Alarm on
High temperature 41 11 % Alarm on

High temperature 71 11 % Alarm on

High temperature 93 21 % Alarm on
High temperature 69 34 % Alarm on
High temperature 80 47 % Alarm on
High temperature 99 13 % Alarm on
```