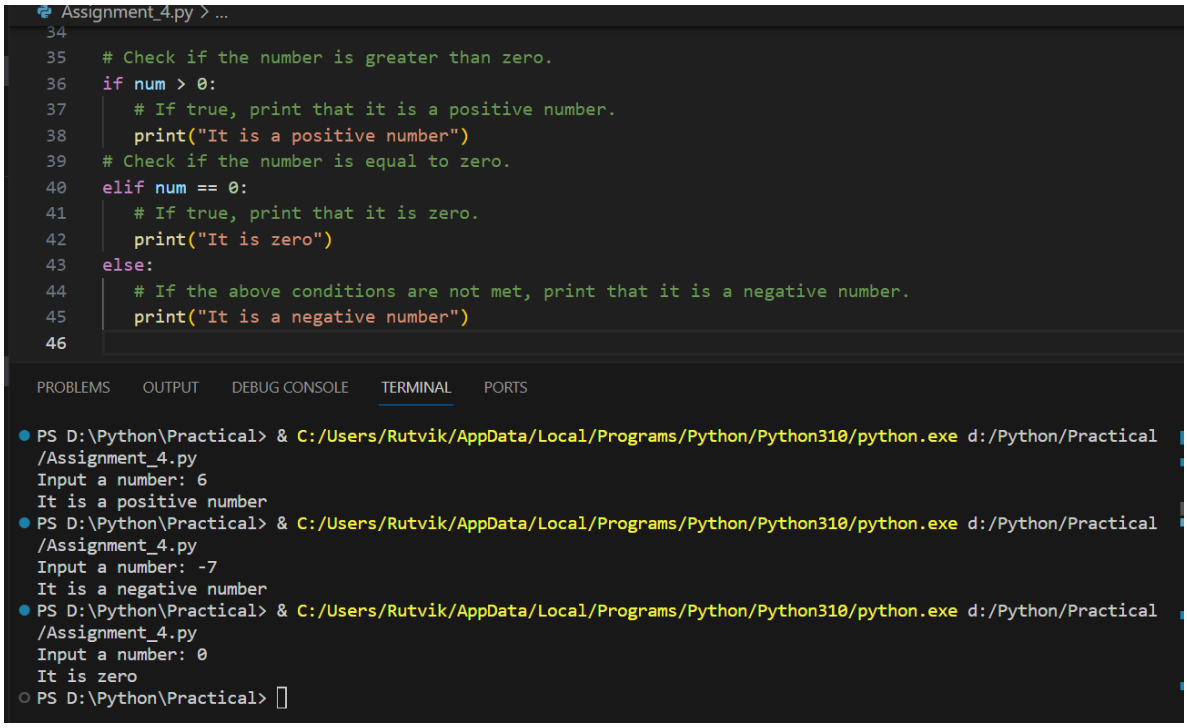
DAY-4 ASSIGNMENT

Q.1 Write a program that asks the user for their favorite color and prints out a message depending on the color they choose. For example: "Red is a bold color!" or "Blue is a calm color!". Use at least 3 different colors in your program.

Q.2 Write a program that asks the user for a number and prints out whether the number is positive, negative, or zero.



Q.3 Write a program that asks the user for a letter grade (A, B, C, D, or F) and prints out the corresponding GPA. For example, an A should print out as 4.0, a B as 3.0. and so on.

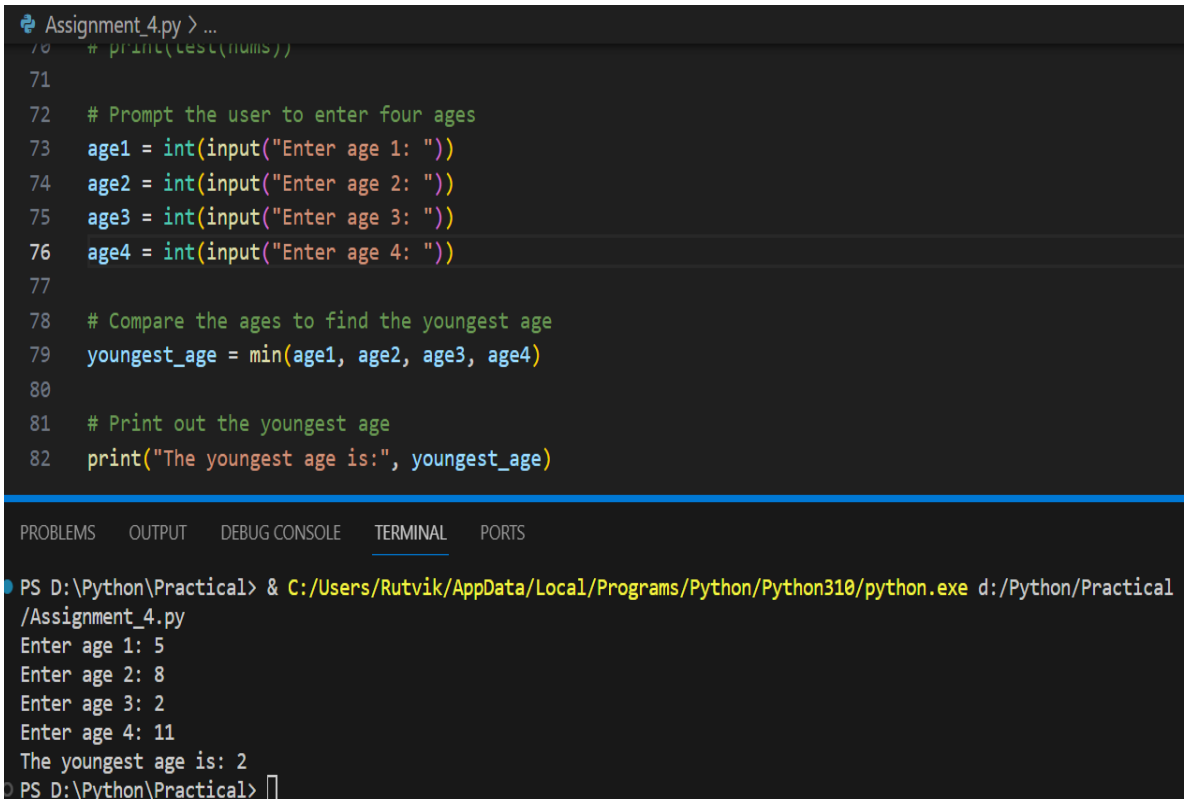
```
Assignment_4.py > ...
48
49  def test(nums):
50      return ["A+" if grade >= 4.0
51              else ("A" if grade >= 3.7
52                    else ("A-" if grade >= 3.4
53                          else ("B+" if grade >= 3.0
54                                else ("B" if grade >= 2.7
55                                      else ("B-" if grade >= 2.4
56                                            else ("C+" if grade >= 2.0
57                                                  else ("C" if grade >= 1.7
58                                                        else ("C-" if grade >= 1.4
59                                                              else "F"))))))))
60              for grade in nums]
61
62
63  nums = [4.0, 3.5, 3.8]
64  print("List of numbers:",nums)
65  print("Convert GPAs to letter grades:")
66  print(test(nums))
67  nums = [5.0, 4.7, 3.4, 3.0, 2.7, 2.4, 2.0, 1.7, 1.4, 0.0]
68  print("\nList of numbers:",nums)
69  print("Convert GPAs to letter grades:")
70  print(test(nums))

PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  PORTS

/Assignment_4.py
List of numbers: [4.0, 3.5, 3.8]
Convert GPAs to letter grades:
['A+', 'A-', 'A']

List of numbers: [5.0, 4.7, 3.4, 3.0, 2.7, 2.4, 2.0, 1.7, 1.4, 0.0]
Convert GPAs to letter grades:
['A+', 'A+', 'A-', 'B+', 'B', 'B-', 'C+', 'C', 'C-', 'F']
PS D:\Python\Practical>
```

Q.4 Ask 4 ages from user (age1, age2, age3, age4). Print out which age is the youngest.



Q.5 Python Program to Generate a Random Number (take help of google)