Documentation of Problem-2

Instructions to execute the solve and test file of Problem-2 are same as Problem-1.

Two python files have been attached regarding this problem as well.

I. Problem2.py : This file contains the Python solve of the problem.
II. test_Problem2.py : This file is for unit testing of the Python solve of Problem-2

Execution of “test_Problem2.py “:

Test cases of this example –

Problem1.py | test_Problem1.py | Problem2.py | test_Problem2.py

test_Problem2.py > ...

```
1   import unittest
2   import Problem2
3
4
5   class TestCalculate(unittest.TestCase):
6
7       def test_calculate(self):
8           self.assertEqual(Problem2.calculate(" 2-1 + 2 "),  3)
9           self.assertEqual(Problem2.calculate("(1+(4+5+2)-3)+(6+8)"),  23)
10
11          #self.assertEqual(Problem2.calculate(" 2-1 + 8 "),  50)
12
```

After executing “test_Problem2.py “ with appropriate test cases -

```
Try the new cross-platform PowerShell https://aka.ms/pscore6

PS D:\Sept 21\Haajee Automobiles assesment solve>  & 'C:\Users\
ms-python.python-2021.11.1422169775\pythonFiles\lib\python\debu

Enter your equation:"(1+(4+5+2)-3)+(6+8)"
23
.
----------------------------------------------------------------------
Ran 1 test in 0.001s

OK
```

Executing “test_Problem2.py “ with inappropriate test cases –

```
class TestCalculate(unittest.TestCase):

    def test_calculate(self):
        self.assertEqual(Problem2.calculate(" 2-1 + 2 "),  3)
        self.assertEqual(Problem2.calculate("(1+(4+5+2)-3)+(6+8)"),  23)

        self.assertEqual(Problem2.calculate(" 2-1 + 8 "),  50)
```

After execution –

```
TERMINAL
PS D:\Sept 21\Haajee Automobiles assesment solve>  & 'C:\Users\farha\AppData\Local\Programs\Python\Py
21.11.1422169775\pythonFiles\lib\python\debugpy\launcher' '63004' '--' 'd:\Sept 21\Haajee Automobiles
Enter your equation:" 2-1 + 2 "
3
F
======================================================================
FAIL: test_calculate (__main__.TestCalculate)
----------------------------------------------------------------------
Traceback (most recent call last):
  File "d:\Sept 21\Haajee Automobiles assesment solve\test_Problem2.py", line 11, in test_calculate
    self.assertEqual(Problem2.calculate(" 2-1 + 8 "),  50)
AssertionError: 9 != 50

----------------------------------------------------------------------
Ran 1 test in 0.001s

FAILED (failures=1)
```