**Client-side input value for test case below**

1. character – expects to receive a fail code.

2. one digit – expects to receive a fail code.

3. one digit with operator – expects to receive a fail code.

4. operator with a digit – expects to receive a fail code.

5. invalid operator (+) in between digits with space – expects to receive a fail code.

6. invalid operator (-) in between digits with space – expects to receive a fail code.

7. invalid operator (\*) in between digits with space – expects to receive a fail code.

8. invalid operator (/) in between digits with space – expects to receive a fail code.

9. valid operator (+) in between digits with space – expects to receive a success code.

10. valid operator (-) in between digits with space – expects to receive a success code.

11. valid operator (\*) in between digits with space – expects to receive a success code.

12. valid operator (/) in between digits with space – expects to receive a success code.

**Test cases**

1. character – expects to receive a fail code.

**Client side**

Input : test

<<== At Client message to send out: 'test

Status\_Code received : 300

Invalid input!!!

**Server side**

==>> At Server receved message is: 'test'

==>> clientAddress is: 127.0.0.1/49832

<<-- Server send back the result: '-1'

2. one digit – expects to receive a fail code.

**Client side**

<<== At Client message to send out: '2

Status\_Code received : 300

Invalid input!!!

**Server side**

==>> At Server receved message is: '2'

==>> clientAddress is: 127.0.0.1/49833

<<-- Server send back the result: '-1'

3. one digit with operator – expects to receive a fail code.

**Client side**

<<== At Client message to send out: '5+

Status\_Code received : 300

Invalid input!!!

**Server side**

==>> At Server receved message is: '5+'

==>> clientAddress is: 127.0.0.1/49834

<<-- Server send back the result: '-1'

4. operator with a digit – expects to receive a fail code.

**Client side**

<<== At Client message to send out: '\* 4

Status\_Code received : 300

Invalid input!!!

**Server side**

==>> At Server receved message is: '\* 4'

==>> clientAddress is: 127.0.0.1/49835

<<-- Server send back the result: '-1'

5. invalid operator (%) in between digits with space – expects to receive a fail code.

**Client side**

<<== At Client message to send out: '4 % 2

Status\_Code received : 300

Invalid input!!!

**Server side**

==>> At Server receved message is: '4 % 2'

==>> clientAddress is: 127.0.0.1/49836

<<-- Server send back the result: '-1'

6. valid operator (+) in between digits with/without space – expects to receive a success code.

**Client side**

<<== At Client message to send out: '4 +4

Status\_Code received : 200

Result received! ==>> 4 +4: 8

**Server side**

==>> At Server receved message is: '4 +4'

==>> clientAddress is: 127.0.0.1/49837

<<== Server send back the result: '8'

7. valid operator (-) in between digits with/without space – expects to receive a success code.

**Client side**

<<== At Client message to send out: '4 -4

Status\_Code received : 200

Result received! ==>> 4 -4: 0

**Server side**

==>> At Server receved message is: '4 -4'

==>> clientAddress is: 127.0.0.1/498328

<<== Server send back the result: '0'

8. valid operator (\*) in between digits with/without space – expects to receive a success code.

**Client side**

<<== At Client message to send out: '4 \*4

Status\_Code received : 200

Result received! ==>> 4 \*4: 16

**Server side**

==>> At Server receved message is: '4 \*4'

==>> clientAddress is: 127.0.0.1/49839

<<== Server send back the result: '16'

9. valid operator (/) in between digits with/without space – expects to receive a success code.

**Client side**

<<== At Client message to send out: '4 /4

Status\_Code received : 200

Result received! ==>> 4 /4: 1.0

**Server side**

==>> At Server receved message is: '4 /4'

==>> clientAddress is: 127.0.0.1/49840

<<== Server send back the result: '1.0'