RPN Calculator Installation/User Manual

Installation

The .zip file you downloaded contains the RPN calculator code.

To start RPN Calculator program, apply the following steps;

- Extract the ZIP file
- Open the directory, extracted from ZIP file, in Eclipse
- In Eclipse, under the Package Explorer section, right click on the gokhan ustuner directory and then click Run As > Java Application. Then, just choose Tester or Calculator, and press 0K.

Tests

Test suites are inside Tester class. They are shown in the image below;

```
oublic class Tester {
public static void main(String[] args) throws IOException {
    RPN rpn = new RPN();
    rpn.apply( expression: "1");
    rpn.apply( expression: "4");
    assert rpn.apply( expression: "+") == 5.0;
    rpn = new RPN();
    rpn.apply( expression: "745");
    rpn.apply( expression: "134");
    rpn.apply( expression: "543");
    assert rpn.apply( expression: "-") == -409;
    assert rpn.apply( expression: "*") == -304705;
    rpn = new RPN();
    rpn.apply( expression: "111");
    assert rpn.apply( expression: "c") == -111;
    assert rpn.apply( expression: "c") == 111;
    rpn.apply( expression: "c");
    rpn.apply( expression: "24");
    assert rpn.apply( expression: "+") == -87;
    rpn = new RPN();
    rpn.apply( expression: "1");
    rpn.apply( expression: "2");
    rpn.apply( expression: "+");
    rpn.apply( expression: "3");
    rpn.apply( expression: "+");
    rpn.apply( expression: "4");
    assert rpn.apply( expression: "+") == 10;
```

How to use?

As you run the source code as a Java application, you will be prompted for a number by the console as shown below;

Start to enter numbers, operators, and press to enter. It is shown in the image below;

Exceptions

Invalid both input exceptions and empty

stack exceptions are caught on the code side. You are just warned, and the loop continues.

IOException: Invalid expression!

EmptyStackException: Stack is empty.