**Lab Goal**: This lab was designed to teach you more about stacks.

**Lab Description:** Take a postfix expression and solve it. All numbers will be in the range 0 to 9.

Standard infix expression 7 + 8 - 2 Standard postfix expression 7 8 + 2 -

## Files Needed ::

Postfix.java PostfixRunner.java

## Sample Data:

```
2 7 + 1 2 + +

1 2 3 4 + + +

9 3 * 8 / 4 +

3 3 + 7 * 9 2 / +

9 3 / 2 * 7 9 * + 4 -

5 5 + 2 * 4 / 9 +
```

## Sample Output:

```
2 7 + 1 2 + + = 12.0

1 2 3 4 + + + = 10.0

9 3 * 8 / 4 + = 7.375

3 3 + 7 * 9 2 / + = 46.5

9 3 / 2 * 7 9 * + 4 - = 65.0

5 5 + 2 * 4 / 9 + = 14.0
```

## algorithm help

```
while there are more values in the original expression {
    get the next value
    if the value is a number
        push the number onto the stack
    else if the value is an operator
        pop 2 numbers from the stack
        use the operator to evaluate the 2 numbers
        push the resulting number onto the stack
}
return the top value from the stack
```