Calculator

Requirements
Design and develop a simple calculator Java program. The calculator (Figure 1) should be able to resolve simple arithmetic expressions of the form:

\[
<\text{OPERAND}> <\text{OPERATOR}> <\text{OPERAND}>
\]

Where \(<\text{OPERAND}>\) is an integer of some kind and \(<\text{OPERATOR}>\) is one of the operators `+`, `-`, `*` or `/` (integer division). Thus given the expression:

\[
63*35
\]

The program should calculate the value of the expression and display the result.

Note: remember to include a divide by zero test!

Testing

<table>
<thead>
<tr>
<th>Test Case</th>
<th>Expected result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operand 1 Operator Operand 2</td>
<td>5</td>
</tr>
<tr>
<td>3 + 2</td>
<td>1</td>
</tr>
<tr>
<td>3 - 2</td>
<td>6</td>
</tr>
<tr>
<td>3 / 0</td>
<td>Error</td>
</tr>
<tr>
<td>3 / 2</td>
<td>1</td>
</tr>
<tr>
<td>3 % 4</td>
<td>Error</td>
</tr>
</tbody>
</table>

Notes

A sequence of if else statements can be written as follows:

```java
if <CONDITION_1> :
    <STATMENTS_1>
elif <CONDITION_2> :
    <STATMENTS_2>
elif <CONDITION_3> :
    <STATMENTS_3>
else
    <STATMENTS_4>
```

The last is the default.