

```
1  /**
2   * Develop a simple 5-function calculator program that allowed the user to
   * select from a menu of operations: add two numbers, subtract two numbers
   * , multiply two numbers, divide two numbers, raise a number to a power, and
   * then enter the two numbers and perform the desired calculation.
3   * This lab was designed to teach you how to use switch statements
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5   * @version 1.0, 10/14/2015
6   */
7  import java.util.Scanner;
8  import static java.lang.System.*;
9  import static java.lang.Math.*;
10
11 public class CalculatorRunner
12 {
13     public static void main( String[] args )
14     {
15         Scanner keyboard = new Scanner( System.in );//Creates new instance
   of a scanner
16         out.print("Please enter:\n+\tto perform addition\n-\tto perform subtraction\n*\tto perform multiplication\n/\tto perform division\n^\tto perform exponentiation\n\n");
17         String operation = keyboard.nextLine();//sets var operation to input string
18
19         out.print("Please enter the first operand:");
20         int firstInt = keyboard.nextInt();//gets first integer and sets it to var firstInt
21
22         out.print("Please enter the second operand:");
23         int secondInt = keyboard.nextInt();//gets second integer and sets it to var secondInt
24
25
26         Calculator test = new Calculator (operation, firstInt, secondInt)
   ;//creates new instance of the Calculator object and sets values inputed by the user
27         double ansDouble = test.doOperation();//solves the operation the user wanted
28         long ans = Math.round(ansDouble);//casts the double answer to an integer by rounding
29         out.println("\n" + firstInt + operation + secondInt + "=" + ans);
   //displayes the answer in an formatted string
30         System.exit(1);
31     }
32 }
```