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* Source code for calculator program using exceptions and functions.
* Please complete code to have your calculator subtract, multiply, divide,
* reset and exit program.
*/
package calculator;

//imports the Scanner object to get information from the keyboard
import java.util.Scanner;
//imports all the lang objects that we will use to handle exceptions
import java.lang.NumberFormatException;

/**
 * @author LearnRich
 */
public class Calculator {

    public static void main(String[] args) {
        /*
        At the top of each structure you should create and initialise the
        variables it will need.
        */
        Scanner keyboard = new Scanner(System.in);
        String inString;
        char inOption;
        double inNum = 0;
        double calcRunningTotal = 0;
        boolean exitFlag = false;

        do {
            System.out.println("Welcome to the LearnRich Running Calculator 3000"
                + "Patent Pending");
            System.out.println("-----");
            System.out.println("1] Add a number");
            System.out.println("2] Subtract a number");
            System.out.println("3] Multiply a number");
            System.out.println("4] Divide a number");
            System.out.println("5] Clear the memory to start new equation");
            System.out.println("6] Exit the program");
            System.out.println("-----");
            System.out.println("Current Total: " + calcRunningTotal);
            System.out.println("Please enter a menu option:");

            //Get an input String from the user
            inString = keyboard.nextLine();

            //System only needs 1 input atm, we can do this by selecteing the
            //first character in the string.
            inOption = inString.charAt(0);

            if(inOption == '1') {

                inNum = getNumberFromUser();
                calcRunningTotal += inNum;
            }
        }
    }
}

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    }
    else {
        //Incorrect option selected
        System.out.println("You have not selected an appropriate "
            + "option, please try again.");
    }
} while(exitFlag == false);
}

/*
 * @param none
 * @return returns the number inputed by user, or 0 if invalid
 */
public static double getNumberFromUser() {
    Scanner keyboard = new Scanner(System.in);
    String inString;
    double inNumber = 0;

    System.out.println("Gime me all your numbers:");
    inString = keyboard.nextLine();
    try {
        inNumber = Integer.parseInt(inString);
    } catch (NumberFormatException nfe) {
        System.err.println("That was not a valid number!");
    }
    return inNumber;
}
}
}

```