1. import java.util.Scanner;
2. public class TwoDigitCalculator {
3. public static void main(String[] args) {
4. Scanner scanner = new Scanner(System.in);
5. try {
6. int num1 = getTwoDigitNumber(scanner);
7. char operator = getOperator(scanner);
8. int num2 = getTwoDigitNumber(scanner);
9. int result = calculate(num1, operator, num2);
10. System.out.println("Result: " + result);
11. } catch (IllegalArgumentException e) {
12. System.err.println("Error: " + e.getMessage());
13. }
14. }
15. private static int getTwoDigitNumber(Scanner scanner) {
16. int number = scanner.nextInt();
17. if (number < 10 || number > 99) throw new IllegalArgumentException("Please enter a valid two-digit number.");
18. return number;
19. }
20. private static char getOperator(Scanner scanner) {
21. char operator = scanner.next().charAt(0);
22. if (operator != '+' && operator != '-' && operator != '\*' && operator != '/') throw new IllegalArgumentException("Invalid operator. Use +, -, \*, or /.");
23. return operator;
24. }
25. private static int calculate(int num1, char operator, int num2) {
26. switch (operator) {
27. case '+': return num1 + num2;
28. case '-': return num1 - num2;
29. case '\*': return num1 \* num2;
30. case '/':
31. if (num2 == 0) throw new IllegalArgumentException("Cannot divide by zero.");
32. return num1 / num2;
33. default: throw new IllegalArgumentException("Unexpected error occurred.");
34. }
35. }
36. }