LAB1-

Q1.

import java.util.Scanner;

public class Calculator {

public static void main(String[] args) {

Scanner = new Scanner(System.in);

System.out.print("Enter the first number: ");

double num1 = scanner.nextDouble();

System.out.print("Enter the second number: ");

double num2 = scanner.nextDouble();

System.out.print("Enter the operator (+, -, \*, /): ");

char operator = scanner.next().charAt(0);

double result = 0;

try {

switch (operator) {

case '+':

result = num1 + num2;

break;

case '-':

result = num1 - num2;

break;

case '\*':

result = num1 \* num2;

break;

case '/':

if (num2 == 0) {

throw new ArithmeticException("Division by zero is not allowed.");

}

result = num1 / num2;

break;

default:

throw new IllegalArgumentException("Invalid operator entered.");

}

System.out.println("Result: " + result);

} catch (ArithmeticException e) {

System.out.println("Error: " + e.getMessage());

} catch (IllegalArgumentException e) {

System.out.println("Error: " + e.getMessage());

}

}

}

OUTPUT :

