**SIMPLE CALCULATOR APPLICATION**

import java.util.Scanner;

public class CalculatorApp {

public static void main(String[] args) {

Scanner scanner = new Scanner(System.in);

System.out.println("Simple Calculator App");

// Input first number

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

double num1 = scanner.nextDouble();

// Input second number

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

double num2 = scanner.nextDouble();

// Choose operation

System.out.println("Choose operation: ");

System.out.println("1. Addition");

System.out.println("2. Subtraction");

System.out.println("3. Multiplication");

System.out.println("4. Division");

int choice = scanner.nextInt();

double result = 0;

// Perform the selected operation

switch (choice) {

case 1:

result = num1 + num2;

break;

case 2:

result = num1 - num2;

break;

case 3:

result = num1 \* num2;

break;

case 4:

if (num2 != 0) {

result = num1 / num2;

} else {

System.out.println("Error: Cannot divide by zero.");

return;

}

break;

default:

System.out.println("Invalid choice.");

return;

}

// Display the result

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

}

}

**NUMBER GUESSING GAME**

import java.util.Random;

import java.util.Scanner;

public class NumberGuessingGame {

public static void main(String[] args) {

Scanner scanner = new Scanner(System.in);

Random random = new Random();

int lowerBound = 1;

int upperBound = 100;

int randomNumber = random.nextInt(upperBound - lowerBound + 1) + lowerBound;

int userGuess;

int attempts = 0;

System.out.println("Welcome to the Number Guessing Game!");

System.out.println("Guess the number between " + lowerBound + " and " + upperBound + ":");

do {

System.out.print("Enter your guess: ");

userGuess = scanner.nextInt();

attempts++;

if (userGuess < randomNumber) {

System.out.println("Too low! Try again.");

} else if (userGuess > randomNumber) {

System.out.println("Too high! Try again.");

} else {

System.out.println("Congratulations! You guessed the number in " + attempts + " attempts.");

}

} while (userGuess != randomNumber);

scanner.close();

}

}