**package** javaproject;

**import** java.util.Scanner;

**public** **class** Calculator {

**private** **double** num1, num2;

**private** **char** operator;

**public** Calculator() {

num1 = 0;

num2 = 0;

operator = ' ';

}

**public** **void** readInput() {

Scanner input = **new** Scanner(System.***in***);

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

num1 = input.nextDouble();

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

num2 = input.nextDouble();

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

operator = input.next().charAt(0);

}

**public** **double** calculate() {

**double** result = 0;

**switch**(operator) {

**case** '+':

result = num1 + num2;

**break**;

**case** '-':

result = num1 - num2;

**break**;

**case** '\*':

result = num1 \* num2;

**break**;

**case** '/':

result = num1 / num2;

**break**;

**default**:

System.***out***.println("Invalid operator");

**break**;

}

**return** result;

}

**public** **static** **void** main(String[] args) {

Calculator calculator = **new** Calculator();

calculator.readInput();

**double** result = calculator.calculate();

System.***out***.println(calculator.getNum1() + " " + calculator.getOperator() + " " + calculator.getNum2() + " = " + result);

}

**public** **double** getNum1() {

**return** num1;

}

**public** **void** setNum1(**double** num1) {

**this**.num1 = num1;

}

**public** **double** getNum2() {

**return** num2;

}

**public** **void** setNum2(**double** num2) {

**this**.num2 = num2;

}

**public** **char** getOperator() {

**return** operator;

}

**public** **void** setOperator(**char** operator) {

**this**.operator = operator;

}

}