package assignment2;

import java.util.Scanner;

public class Calculator{

private static Scanner *scan*;

int firstValue;

int secondValue;

int operator;

public static void main(String[] args) {

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

new Calculator().getValues(*scan*);

}

// Get values and operator from the menu

public void getValues(Scanner scan) {

char repeat;

do {

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

firstValue = scan.nextInt();

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

secondValue = scan.nextInt();

System.*out*.println("Enter the number beside the operation to perform: 1.Add 2.Subtract 3. Multiply 4. Divide");

operator = scan.nextInt();

String result = calculate(firstValue, secondValue, operator);

System.*out*.println(result);

if (result.startsWith("Entered wrong option") || result.startsWith("The divider")) {

break;

}

System.*out*.println("Do you want to try again (y/n)");

repeat = scan.next().charAt(0);

} while (repeat == 'y' || repeat == 'Y');

}

// operates based on the chosen switch case corresponding to the menu and return string

public String calculate(int firstValue, int secondValue, int operator) {

int result = 0;

String output = "";

switch (operator) {

case 1:

result = firstValue + secondValue;

output = firstValue + " + " + secondValue + " = " + result;

break;

case 2:

result = firstValue - secondValue;

output = firstValue + " - " + secondValue + " = " + result;

break;

case 3:

result = firstValue \* secondValue;

output = firstValue + " \* " + secondValue + " = " + result;

break;

case 4:

if (secondValue != 0) {

result = firstValue / secondValue;

output = firstValue + " / " + secondValue + " = " + result;

} else {

output = "The divider (secondValue) cannot be zero";

}

break;

default:

output = "Entered wrong option: " + operator;

break;

}

return output;

}

}



