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package assignment1;

import java.util.Scanner;

public class Calculator {

    public static void main(String[] args) {
        System.out.println("Welcome To the basics Calculator");
        Scanner sc = new Scanner(System.in);
        calculator(sc);
        sc.close();
    }

    private static void calculator(Scanner sc) {
        int n;
        do {
            System.out.println("Select 1: For Addition");
            System.out.println("Select 2: For Subtraction");
            System.out.println("Select 3: For Division");
            System.out.println("Select 4: For Multiplication");
            System.out.println("Select 5: For Termination");

            n = sc.nextInt();
            switch (n) {
                case 1: {
                    addition(sc);
                    break;
                }
                case 2: {
                    subtraction(sc);
                    break;
                }
                case 3: {
                    division(sc);
                    break;
                }
                case 4: {
                    multiplication(sc);
                    break;
                }
                case 5: {
                    System.out.println("Terminated Sucessfully \n");
                    break;
                }
            }
        } while (n != 5);
    }
}
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        }
        default:
            System.out.println("Enter Valid Input \n");
            break;
    }

    } while (n != 5);

}

private static void multiplication(Scanner sc) {
    // TODO Auto-generated method stub
    System.out.println("Enter 2 Integers you wanted to multiply");
    int n=sc.nextInt();
    int m=sc.nextInt();
    int ans=m*n;
    System.out.println("The multiplication of "+n+"*"+m+"="+ans);
}

private static void division(Scanner sc) {
    // TODO Auto-generated method stub
    System.out.println("Enter 2 Integers you wanted to multiply");
    double n=sc.nextDouble();
    double m=sc.nextDouble();
    Double ans=m/n;
    System.out.println("The Division of "+n+"/"+m+"="+ans);
}

private static void subtraction(Scanner sc) {
    // TODO Auto-generated method stub
    System.out.println("Enter 2 Integers you wanted to multiply");
    int n=sc.nextInt();
    int m=sc.nextInt();
    int ans=m-n;
    System.out.println("The subtraction of "+n+"-"+m+"="+ans);
}

private static void addition(Scanner sc) {
    // TODO Auto-generated method stub
    System.out.println("Enter 2 Integers you wanted to multiply");
    int n=sc.nextInt();
    int m=sc.nextInt();

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int ans=m+n;  
System.out.println("The addition of "+n+"+"+m+"="+ans);
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}
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}
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