Project Name : Arithmetic Calculator

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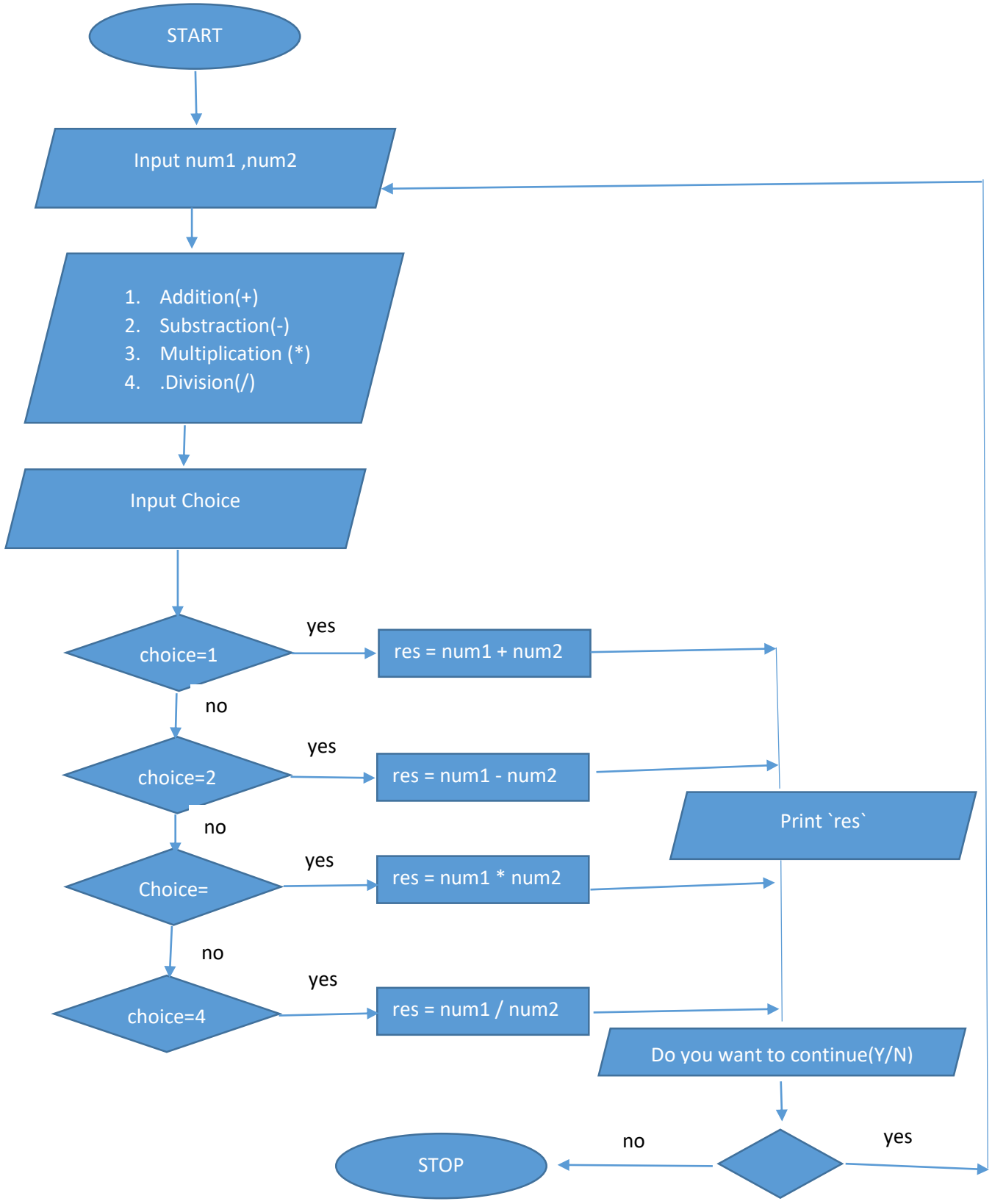
Objective : write a Java code to create a calculator to perform the four basic arithmetic operations (addition, subtraction, multiplication, and division).

Algorithm :

Step 1: Begin
Step 2: Enter two operands num1 & num2
Step 3: Print Menu (1.Addition 2. Substraction 3.Multiplication 4.Division)
Step 4: Enter your choice
Step 5: If the user enters 1 or 2 or 3 or 4 then follow the below steps
else flow goes to default case & exit the program
Step 6: Switch(operator)

a. case 1:
    i. Print num1+num2
    ii. break
b. case 2:
    i. Print num1- num2.
    ii. break
c. case 3:
    i. Print num1 * num2.
    ii. break
d. case 4:
    i. Print num1 / num2.
    ii. break
e. default:
    i. Print 'Invalid Option'.

Flow Chart for Arithmetic Calculator



Calculator.java

```
import java.util.Scanner;
public class Calculator {
    public static void main(String[] args) {
       Scanner sc=new Scanner(System.in);
       while(true) {
              System.out.println("Enter Two Number :");
              int num1 = sc.nextInt();
              int num2 = sc.nextInt();
              System.out.println("Press 1 for Addition(+)");
              System.out.println("Press 2 for Substraction(-)");
              System.out.println("Press 3 for Addition(*)");
              System.out.println("Press 4 for Addition(/)");
              int choice = sc.nextInt();
              switch(choice) {
                case 1 :
                     System.out.println(num1+"+"+num2+"="+(num1+num2));
                     break;
                case 2 :
                     System.out.println(num1+"-"+num2+"="+(num1-num2));
                     break;
                case 3 :
                     System.out.println(num1+"*"+num2+"="+(num1*num2));
                     break;
                case 4 :
                     System.out.println(num1+"/"+num2+"="+(num1/num2));
                     break;
                default:
                     System.out.println("invalid Choice");
               }
              sc.nextLine();
              System.out.println("Do you want to continue (Y/N):");
              String option = sc.nextLine();
              if(option.equalsIgnoreCase("N")) {
                     System.out.println("Application terminated Successfully");
                     break;
              }
       }
    }
}
```