**Name: Waghmare Akash Arun**

**Roll no: TE30**

**Subject: FJP**

**Title : Implement a calculator with simple arithmetic operations.**

**1)Write a program in JAVA to implement a Calculator with simple arithmetic operations such as add , substract , multiply , divide , factorial, etc. using switch case and other simple JAVA statements.**

**Code :**

package Exp\_2;

import java.util.Scanner;

class computation

{

Scanner sc = new Scanner(System.in);

private int no1,no2;

public void add()

{

System.out.println("Enter two numbers");

nol =sc.nextInt();

no2= sc.nextInt();

System.out.println("The addition of two numbers is "+ (nol+no2));

}

public void subtract()

{

System.out.println("Enter two numbers");

nol=sc.nextInt();

no2=sc.nextInt();

System.out.println("The subtraction of two numbers is "+ (nol-no2));

}

public void multiply()

{

System.out.println("Enter two numbers");

nol= sc.nextInt();

no2=sc.nextInt();

System.out.println("The multiplication of two numbers is "+(no1\*no2));

}

public void division()

{

System.out.println("Enter two numbers”);

nol=sc.nextInt();

no2=sc.nextInt();

System.out.println("The division of two numbers is "+ (no1/no2));

}

public void factorial()

{

System.out.println("Enter the number");

int num=sc.nextInt();

int fact= 1;

for(int i=1;i<num; i++)

{

fact = fact\*i;

}

System.out.println("The factorial is "+fact);

}

}

public class Calculator {

public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

computation comp=new computation();

int choice;

String ans="yes";

do {

System.out.println(" 1.Addition\n 2.Subtraction\n 3.Multiplication\n 4.Division 5.Factorial\n");

System.out.println("Enter your choice"); choice = sc.nextInt();

switch(choice)

{

case 1: comp.add(); break;

case 2: comp.subtract(); break;

case 3: comp.multiply();

break;

case 4: comp.division();

break;

case 5: comp.factorial); break; }

}

System.out.println("Do you want to continue - yes or no");

ans = sc.next();

}

while(ans.equals("yes"));

}

}

**Output:**

1.Addition

2.Substraction

3.Multiplication

4.Division

5.Factorial

Enter your choice

3

Enter two numbers

12

10

The multiplication of two numbers is 120

Do you want to continue – yes or no

yes

1.Addition

2.Substraction

3.Multiplication

4.Division

5.Factorial

Enter your choice

5

Enter the number

5

The factorial is 120

Do you want to continue – yes or no

no