Experiment No:-02

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**Program Code:-**

import java.util.Scanner;

public class Calculator {

public static void main(String[] args) {

Scanner sc=new Scanner(System.in);

System.out.println("Enter two Numbers :");

int a=sc.nextInt();

int b=sc.nextInt();

char c='n';

do{

System.out.println("Enter the number assign to operation which you want to perform:\n1]Addition\n2]Subtraction\n3]Multiplication\n

4]Division\n5]To find Factorial");

int choice=sc.nextInt();

switch(choice){

case 1:

System.out.println("Addition :"+ (a+b));

break;

case 2:

System.out.println("Subtraction :"+ (a-b));

break;

case 3:

System.out.println("Multiplication :"+ a\*b);

break;

case 4:

System.out.println("Division :"+ a/b);

break;

case 5:

System.out.println("Enter the number which factorial is to be calculated");

int num=sc.nextInt();

int f=1;

if(num==0)

System.out.println("Factorial :" +f);

else{

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

f=f\*i;

}

System.out.println("Factorial :" +f);

}

break;

default :

System.out.println("Invalid Choice");

}

System.out.println("To continue enter yes");

c=sc.next().charAt(0);

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

}

}

**Output:-**

Enter two Numbers :

8

4

Enter the number assign to operation which you want to perform:

1]Addition

2]Subtraction

3]Multiplication

4]Division

5]To find Factorial

1

Addition :12

To continue enter yes

yes

Enter the number assign to operation which you want to perform:

1]Addition

2]Subtraction

3]Multiplication

4]Division

5]To find Factorial

2

Subtraction :4

To continue enter yes

yes

Enter the number assign to operation which you want to perform:

1]Addition

2]Subtraction

3]Multiplication

4]Division

5]To find Factorial

3

Multiplication :32

To continue enter yes

yes

Enter the number assign to operation which you want to perform:

1]Addition

2]Subtraction

3]Multiplication

4]Division

5]To find Factorial

4

Division :2

To continue enter yes

yes

Enter the number assign to operation which you want to perform:

1]Addition

2]Subtraction

3]Multiplication

4]Division

5]To find Factorial

5

Enter the number which factorial is to be calculated

5

Factorial :120

To continue enter yes

no