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Roll No – 19

Input:

```
import java.util.Scanner;

class Calculator
{
    public static void main(String[] args)
    {
        Scanner sc = new Scanner(System.in);

        System.out.println("1.Addition");
        System.out.println("2.Subtraction");
        System.out.println("3.Multiplication");
        System.out.println("4.Division");
        System.out.println("5.Factorial");
        System.out.print("Enter your choice : ");
        int choice=sc.nextInt();
        switch(choice)
        {
            case 1:
                System.out.print("Enter two numbers for addition : ");
                int num1 = sc.nextInt();
                int num2 = sc.nextInt();
                System.out.print("Result = "+(num1+num2));
                break;

            case 2:
                System.out.print("Enter two numbers for Subtraction : ");
                int num3 = sc.nextInt();
```

```
int num4 = sc.nextInt();  
  
System.out.print("Result = "+(num3-num4));  
  
break;
```

case 3:

```
System.out.print("Enter two numbers for Multiplication : ");  
  
int num5 = sc.nextInt();  
  
int num6 = sc.nextInt();  
  
System.out.print("Result = "+(num5*num6));  
  
break;
```

case 4:

```
System.out.print("Enter two numbers for division : ");  
  
int num7 = sc.nextInt();  
  
int num8 = sc.nextInt();  
  
System.out.print("Result = "+(num7/num8));  
  
break;
```

case 5:

```
System.out.print("Enter a num to find its factorial: ");  
  
int num = sc.nextInt();  
  
int fact=1;  
  
if(num==1 || num==0)  
{  
    fact = 1;  
}  
  
else  
{  
    for(int i=num ; i>0 ; i--)  
    {  
        fact=fact*i;  
    }  
}
```

```

        }
    }
    System.out.print("Factorial of "+num+" = "+fact);
    break;

default:
    System.out.println("invalid operator !");
    break;

}
}
}

```

Output:

1.Addition

2.Subtraction

3.Multiplication

4.Division

5.Factorial

Enter your choice : 1

Enter two numbers for addition : 4 5

Result = 9

1.Addition

2.Subtraction

3.Multiplication

4.Division

5.Factorial

Enter your choice : 2

Enter two numbers for Subtraction : 15 5

Result = 10

1.Addition

2.Subtraction

3.Multiplication

4.Division

5.Factorial

Enter your choice : 3

Enter two numbers for Multiplication : 5 6

Result = 30

1.Addition

2.Subtraction

3.Multiplication

4.Division

5.Factorial

Enter your choice : 4

Enter two numbers for division : 6 3

Result = 2

1.Addition

2.Subtraction

3.Multiplication

4.Division

5.Factorial

Enter your choice : 5

Enter a num to find its factorial: 4

Factorial of 4 = 24