

# Day1

24 February 2023 21:23

## Q1. Create class Calci with method add(), sub(), mul() ..?

```
package Java_day1;

public class Calci {

    public int add(int num1, int num2) {

        return num1+num2;

    }

    public int sub(int num1, int num2) {

        return num1-num2;

    }

    public int mul(int num1, int num2) {

        return num1*num2;

    }

}
```

Screen clipping taken: 25-02-2023 21:46

```
package Java_day1;

public class Main {

    public static void main(String[] args) {

        Calci calciObj = new Calci();

        System.out.println("Adiition is : "+calciObj.add(10, 20));
        System.out.println("Subtraction is : "+calciObj.sub(40, 20));
        System.out.println("Multiplication is : "+calciObj.mul(10, 15));

    }

}
```

Screen clipping taken: 25-02-2023 21:47

```
Adiition is : 30
Subtraction is : 20
Multiplication is : 150
```

Screen clipping taken: 25-02-2023 21:47

## Q2. Create login validator?

```

Main.java Calci.java LoginValidator.java InterestCalculator.java CurrencyConverter.java
1 package Java_day1;
2
3 public class LoginValidator {
4
5     String userName="Admin";
6     String password="1234";
7
8     public boolean loginValidater(String user, String pass)
9     {
10         if(user==userName && password==pass)
11             return true;
12         else
13             return false;
14     }
15
16 }
17

```

```

Main.java X Calci.java LoginValidator.java InterestCalculator.java CurrencyConverter.java
11 //      System.out.println("Adiition is : "+calciObj.mul(10, 15));
12
13
14     LoginValidator objLoginValidator= new LoginValidator();
15
16     if(objLoginValidator.loginValidater("Admin", "1234"))
17         System.out.println("Login Succesfull..!!");
18     else
19         System.out.println("Login Failed..!!");
20
21 }
22
23 }
24

```

Console X

```

<terminated> Main [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (24-Feb-2023, 9:47:32 pm - 9:47:32 pm) [pid: 39168]
Login Succesfull..!!

```

Screen clipping taken: 24-02-2023 21:48

**Q3. Create class InterestCalculator & calculate Simple & Compound Interest?**

```

1 package Java_day1;
2
3 public class InterestCalculator {
4
5     public double calculateSimpleInterest(double amount, double tenure, double rate)
6     {
7         return (amount*tenure*rate)/100;
8     }
9
10    public double calculateCompoundInterest(double amount, double tenure, double rate)
11    {
12        double compoundInterest = amount * (Math.pow((1+rate/100) , tenure))-amount;
13        return compoundInterest;
14    }
15 }

```

Screen clipping taken: 25-02-2023 21:34

```

InterestCalculator objInterest=new InterestCalculator();

double si=objInterest.calculateSimpleInterest(700000, 6, 12);
System.out.println("Simple Interest : "+si);

double compoundInterest =objInterest.calculateCompoundInterest(100000, 3, 5);
System.out.println("Compound Interest : "+compoundInterest);

```

Screen clipping taken: 25-02-2023 21:42

```

Simple Interest : 504000.0
Compound Interest : 15762.5000000000015

```

Screen clipping taken: 25-02-2023 21:41

#### Q4. Currency converter USD to INR?

```

1 package Java_day1;
2
3 public class CurrencyConverter {
4
5
6     public double convertUSDtoINR(double num)
7     {
8         return num*82.82;
9     }
10 }
11

```

```
27
28     CurrencyConverter objCurrencyConverter= new CurrencyConverter();
29
30     System.out.println("In INR : "+objCurrencyConverter.convertUSDtoINR(15));
31
32
33 }
34
35
```

Console X

terminated> Main [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (24-Feb-2023, 10:03:37 pm - 10:03:37 pm) [pid: 46896]

In INR : 1242.3

Screen clipping taken: 24-02-2023 22:05

#### Q5. Temperate converter fahrenheit to celcius?

```
1 package Java_day1;
2
3 public class TemperatureConverter {
4
5     public double convertFahrenheitToCelcius(double fahrenheit)
6     {
7         return ((fahrenheit-32)*5)/9;
8     }
9 }
10
```

Screen clipping taken: 25-02-2023 21:26

```
TemperatureConverter objTempConverter= new TemperatureConverter();

double temp=objTempConverter.convertFahrenheitToCelcius(54);
System.out.println("Temperature in Celcius : "+temp);
```

Output :

```
Temperature in Celcius : 12.222222222222221
```

Screen clipping taken: 25-02-2023 21:25