

Tutorial_3

This assignment was locked Aug 21 at 11:45am.

Perform the task using Scanner class

1. Perform the program to perform following task

- Print using all data types (input and output)

Code:

```
import java.io.*;
import java.util.*;

class Temp3 {
    public static void main(String a[]) {
        Scanner s1 = new Scanner(System.in);

        String n1;
        int n2;
        float n3;
        double n4;

        n1 = s1.nextLine();
        n2 = s1.nextInt();
        n3 = s1.nextFloat();
        n4 = s1.nextDouble();

        System.out.println(n1);
        System.out.println(n2);
        System.out.println(n3);
        System.out.println(n4);
    }
}
```

```
C:\Users\mayur\Downloads\demo44444>java Temp3
mayur
29
33.33
443.4434444
mayur
29
33.33
443.4434444

C:\Users\mayur\Downloads\demo44444>
```

2. Perform the following operation

+, -, *, /

Code:

```
import java.io.*;
import java.util.*;
```

```
class Temp3 {
    public static void main(String a[]) {
        Scanner s1 = new Scanner(System.in);

        int n1, n2, add, sub, div, mul;

        n1 = s1.nextInt();
        n2 = s1.nextInt();
        add = n1 + n2;
        sub = n1 - n2;
        div = n1 / n2;
        mul = n1 * n2;

        System.out.println("Addition :"+add);
        System.out.println("Subtraction :"+sub);
        System.out.println("Multification :"+mul);
        System.out.println("Division :"+div);
    }
}
```

```
C:\Users\mayur\Downloads\demo44444>javac Temp3.java

C:\Users\mayur\Downloads\demo44444>java Temp3
10
20
Addition :30
Subtraction :-10
Multification :200
Division :0

C:\Users\mayur\Downloads\demo44444>
```

3. Program to calculate swapping without using third variable.
Code:

```
import java.io.*;
import java.util.*;

class Temp3 {
    public static void main(String a[]) {
        Scanner s1 = new Scanner(System.in);

        int n1, n2;

        n1 = s1.nextInt();
        n2 = s1.nextInt();

        n1 = n1 + n2;
        n2 = n1 - n2;
        n1 = n1 - n2;

        System.out.println("Swapping of two number:");
        System.out.println(n1);
        System.out.println(n2);
    }
}
```

```
C:\Users\mayur\Downloads\demo44444>javac Temp3.java

C:\Users\mayur\Downloads\demo44444>java Temp3
30
20
Swapping of two number:
20
30
```

4. Perform snippet for the below code

Employee Id:

Employee Name:

Employee DOB:

Employee Email Id:

Employee PhoneNo:

Employee Hobbies:

Employee City:

Employee State:

Employee Leave:

Employee Salary:

Code:

```
import java.io.*;
import java.util.*;
```

```
class Temp3 {
    public static void main(String a[]) {
        Scanner s1 = new Scanner(System.in);
        String name, dob, email, phoneno, hobbies, city, state, leave;
```

```
int salary, id;
```

```
System.out.println("Enter Employee Details:");
```

```
name = s1.nextLine();
```

```
dob = s1.nextLine();
```

```
email = s1.nextLine();
```

```
phoneno = s1.nextLine();
```

```
hobbies = s1.nextLine();
```

```
city = s1.nextLine();
```

```
state = s1.nextLine();
```

```
leave = s1.nextLine();
```

```
salary = s1.nextInt();
```

```
id = s1.nextInt();
```

```
System.out.println("Employee Id:"+id);
```

```
System.out.println("Employee Name:"+name);
```

```
System.out.println("Employee dob:"+dob);
```

```
System.out.println("Employee email:"+email);
```

```
System.out.println("Employee phoneno:"+phoneno);
```

```
System.out.println("Employee hobbies:"+hobbies);
```

```
System.out.println("Employee city:"+city);
```

```
System.out.println("Employee state:"+state);
```

```
System.out.println("Employee leave:"+leave);
```

```
System.out.println("Employee salary:"+salary);
```

```
}
```

```
}
```

```
C:\Users\mayur\Downloads\demo44444>java Temp3
Enter Employee Details:
Demo
28-10-2002
d@gmail.com
49394939494
singing
democity
demostate
4
30000
19
Employee Id:19
Employee Name:Demo
Employee dob:28-10-2002
Employee email:d@gmail.com
Employee phoneno:49394939494
Employee hobbies:singing
Employee city:democity
Employee state:demostate
Employee leave:4
Employee salary:30000

C:\Users\mayur\Downloads\demo44444>
```

5. Write a code to simplify some of mathematic operation

- Simple Interest
- Compound Interest
- Area of Circle
- Area of Triangle
- Area of Square
- Area of Rectangle

Code:

```
import java.io.*;
import java.util.*;
```

```
class Temp3 {
    public static void main(String a[]) {
        Scanner s1 = new Scanner(System.in);
        int p, t, r, n, n1, b, l, s;

        System.out.println("Enter principal ammount:");
        p = s1.nextInt();
        System.out.println("Enter time:");
        t = s1.nextInt();
        System.out.println("Enter rate of interest:");
        r = s1.nextInt();
        System.out.println("Enter number:");
        n = s1.nextInt();
        System.out.println("Enter radius:");
        n1 = s1.nextInt();
        System.out.println("Enter breadth:");
        b = s1.nextInt();
        System.out.println("Enter length:");
        l = s1.nextInt();
        System.out.println("Enter side:");
        s = s1.nextInt();

        System.out.println("Simple interest :"+(p*t*r));
        System.out.println("Compound interest :"+(p*(1+r/n)));
        System.out.println("Area of circle :"+(2.14*r*r));
        System.out.println("Area of triangle:"+(1/2*b*l));
        System.out.println("Area of square:"+(s*s));
        System.out.println("Area of rectangle :"+(l*b));

    }
}
```

```
C:\Users\mayur\Downloads\demo44444>javac Temp3.java

C:\Users\mayur\Downloads\demo44444>java Temp3
Enter principal ammount:
100000
Enter time:
3
Enter rate of interest:
10
Enter number:
5
Enter radius:
9
Enter breadth:
23
Enter length:
29
Enter side:
54
Simple interest :3000000
Compound interest :300000
Area of circle :214.000000000000003
Area of triangle:0
Area of square:2916
Area of rectangle :667
```