

## 23BAI1035-BCSE103E-Java

**GitHub Link:** <https://github.com/Nity05/Java-Sub.git>

**Date:** 16-07-2024

### 1.Printing Text

#### Code:

```
public class Print{  
    public static void main(String[] args){  
        System.out.println("Hello World!");  
    }  
}
```

#### Output:

```
PS C:\Nithish\College\coding\java> javac Print.java  
PS C:\Nithish\College\coding\java> java Print  
Hello World!
```

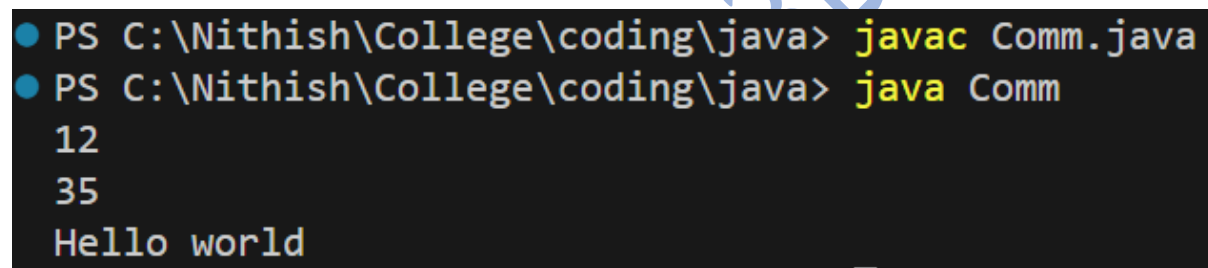
### 2.Using Comments

#### Code

```
public class Comm{  
    public static void main(String[] args){  
        final int a=12;  
        int b=10;  
        b+=25;  
        //This is a single line comment  
  
        /*This comment can be of multi line
```

```
Line 1
Line 2
*/
String s="Hello world";
System.out.println(a);
System.out.println(b);
System.out.println(s);
}
}
```

### Output:



```
PS C:\Nithish\College\coding\java> javac Comm.java
PS C:\Nithish\College\coding\java> java Comm
12
35
Hello world
```

### 3.Variables

#### Code:

```
public class Var {

    public static void main(String[] args){
        final int a=12;
        int b=10;
        b+=25;
        String s="Hello world";
        System.out.println(a);
        System.out.println(b);
        System.out.println(s);
    }
}
```

```
}  
}
```

### Output

```
PS C:\Nithish\College\coding\java\Java-Sub\Day1> javac Var.java  
PS C:\Nithish\College\coding\java\Java-Sub\Day1> java Var  
12  
35  
Hello world
```

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**Date: 18-07-2024**

**GitHub Link:** <https://github.com/Nity05/Java-Sub.git>

## **1.Integer to Double**

### **Code:**

```
public class E2{  
    public static void main(String[] args){  
        int myInt=9;  
        double myDouble=myInt;  
        System.out.println(myDouble);  
        System.out.println(myInt);  
    }  
}
```

### **Output:**

```
PS C:\Nithish\College\coding\java> javac E2.java  
PS C:\Nithish\College\coding\java> java E2  
9.0  
9
```

## **2.Double to Integer**

### **Code:**

```
public class Ex2{  
    public static void main(String[] args){  
        double myDouble=9.78d;  
        int myInt=(int)myDouble;  
        System.out.println(myDouble);  
    }  
}
```

```
System.out.println(myInt);  
}  
}
```

**Output:**

```
C:\1035>java Ex2  
9.78  
9
```

**3.String Concatenation**

**Code:**

```
public class Ex4{  
    public static void main(String[] args){  
        int n=100;  
        String s="Hi";  
        String sum=s+n;  
        System.out.println(sum);  
    }  
}
```

**Output:**

```
C:\1035>java Ex4  
Hi100
```

**4.Ternary Operator**

**Code:**

```
public class Ex5{  
    public static void main(String[] args){  
        int x,y;  
        x=20;
```

```
y=(x==1)?78:45;
System.out.println(y);
y=(x==20)?78:45;
System.out.println(y);
}
}
```

### **Output:**

```
C:\1035>java Ex5
45
78
```

### **5.Length operator**

#### **Code:**

```
public class Ex6{
    public static void main(String[] args){
        String s="Nithish Kumar";
        System.out.println("The length of the s string is: "+s.length());
    }
}
```

### **Output:**

```
C:\1035>java Ex6
The length of the s string is: 13
```

### **6.Case Conversion**

#### **Code:**

```
public class Ex7{
    public static void main(String[] args){
        String s="AbCdEfg";
        System.out.println( s.toUpperCase());
        System.out.println(s.toLowerCase());
    }
}
```

```
}  
}
```

**Output:**

```
C:\1035>java Ex7  
ABCDEFGG  
abcdefg
```

**7.Search**

**Code:**

```
public class Ex8{  
    public static void main(String[] args){  
        String s="AbCdEfg";  
        System.out.println(s.indexOf("CdE"));  
    }  
}
```

**Output:**

```
C:\1035>java Ex8  
2
```

**Date:22-07-2024**

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### **1.Concantenation-1**

**Code:**

```
public class ep1{  
    public static void main(String args[]){  
        String firstName="John";  
        String lastname="Smith";  
        System.out.println(firstName+" "+lastname);  
    }  
}
```

**Output**

```
C:\Nithish\College\coding\java>java ep1  
John Smith
```

### **2.Concantenation-2**

**Code:**

```
public class con{  
    public static void main(String args[]){  
        String firstName="John";  
        String lastname="Smith";  
        System.out.println(firstName.concat(lastname));  
    }  
}
```



### Output:

```
PS C:\Nithish\College\coding\java> javac con.java
PS C:\Nithish\College\coding\java> java con
JohnSmith
```

### 3.Concantenation-3

#### Code

```
public class ep2{
    public static void main(String args[]){
        String x="10";
        int y=20;
        String z=x+y;
        System.out.println(z);
    }
}
```

#### Output

```
C:\Nithish\College\coding\java>java ep2
1020
```

### 4.Escape sequence

#### Code

```
public class ep3{
    public static void main(String args[]){
        String txt="We are the so-called \"Vikings\" from the north";
        System.out.println(txt);
    }
}
```

## Output

```
C:\Nithish\College\coding\java>java ep3  
We are the so-called "Vikings" from the north
```

## 5.Max function

### Code

```
public class ep4{  
    public static void main(String args[]){  
        System.out.println(Math.max(200000,90));  
    }  
}
```

### Output

```
C:\Nithish\College\coding\java>java ep4  
200000
```

## 6.Min function

### Code

```
public class ep5{  
    public static void main(String args[]){  
        System.out.println(Math.min(200000,90));  
    }  
}
```

### Output

```
C:\Nithish\College\coding\java>java ep5  
90
```

## 7.Square Root

### **Code**

```
public class ep6{  
    public static void main(String args[]){  
        System.out.println(Math.sqrt(2));  
    }  
}
```

### **Output**

```
C:\Nithish\College\coding\java>java ep6  
1.4142135623730951
```

## **8.Absolute Function**

### **Code**

```
public class ep7{  
    public static void main(String args[]){  
        System.out.println(Math.abs(-5.89));  
    }  
}
```

### **Output**

```
C:\Nithish\College\coding\java>java ep7  
5.89
```

## **9.Random function**

### **Code**

```
public class ep8{  
    public static void main(String args[]){  
        System.out.println(Math.random());  
    }  
}
```

}

### Output

```
C:\Nithish\College\coding\java>java ep8  
0.026097557338222388
```

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**Date: 23-07-2024**

**GitHub Link:** <https://github.com/Nity05/Java-Sub.git>

## **1. Boolean**

### **Code:**

```
public class ep9{  
    public static void main(String[] args){  
        boolean isJavaFun=true;  
        boolean isFishTasty=false;  
        System.out.println(isJavaFun);  
        System.out.println(isFishTasty);  
    }  
}
```

### **Output:**

```
PS C:\Nithish\College\coding\java> javac ep9.java  
PS C:\Nithish\College\coding\java> java ep9  
true  
false
```

## **2.Comparision**

### **Code:**

```
public class ep10{  
    public static void main(String[] args){  
        int x=10;  
        int y=9;  
        System.out.println(x>y);  
    }  
}
```

```
}  
}
```

```
PS C:\Nithish\College\coding\java> java ep10  
true
```

### 3.Comparision

#### Code:

```
public class ep11{  
    public static void main(String[] args){  
  
        System.out.println(10==15);  
    }  
}
```

#### Output

```
PS C:\Nithish\College\coding\java> java ep11  
false
```

### 4.If condition

#### Code:

```
public class ep11{  
    public static void main(String[] args){  
        if(20>18){  
  
            System.out.println("20 is greater than 18");  
        }  
    }  
}
```

#### Output

```
PS C:\Nithish\College\coding\java> java ep11
20 is greater than 18
```

#### 4.If-Else

##### Code

```
public class ep111{
    public static void main(String[] args){
        int time=20;
        if(time<18){

            System.out.println("Good day");}
        else{
            System.out.println("Good evening");
        }
    }
}
```

##### Output

```
PS C:\Nithish\College\coding\java> java ep11
Good evening
```

#### 5.If-Else if-Else

##### Code:

```
public class ep11{
    public static void main(String[] args){
        int time=22;
        if(time<10){

            System.out.println("Good morning");}
        else if(time<20){
            System.out.println("Good day");
        }
    }
}
```

```
    }  
    else{  
        System.out.println("Good evening");  
    }  
}  
}
```

### Output

```
PS C:\Nithish\College\coding\java> java ep11  
Good evening
```

## 6.Switchcase

### Code

```
public class ep12{  
    public static void main(String[] args){  
        int day=4;  
        switch (day) {  
            case 1:  
                System.out.println("Monday");  
                break;  
            case 2:  
                System.out.println("Tuesday");  
                break;  
            case 3:  
                System.out.println("Wednesday");  
                break;  
            case 4:  
                System.out.println("Thursday");  
                break;  
        }  
    }  
}
```



```

case 5:
    System.out.println("Friday");
    break;
case 6:
    System.out.println("Saturday");
    break;
case 7:
    System.out.println("Sunday");
    break;
default:
    System.out.println("Wrong input");
}
}
}

```

### Output

```

PS C:\Nithish\College\coding\java> java ep12
Thursday

```

## 7.While

### Code:

```

public class ep13{
    public static void main(String[] args){
        int i=0;
        while(i<5){
            System.out.println(i);
            i++;
        }
    }
}

```

```
}
```

### Output

```
PS C:\Nithish\College\coding\java> java ep13
0
1
2
3
4
```

### 8.Do While

#### Code

```
public class dow{
    public static void main(String[] args){
        int i=0;
        do{
            System.out.println(i);
            i++;
        }
        while(i<5);
    }
}
```

#### Output

```
● PS C:\Nithish\College\coding\java> javac dow.java
● PS C:\Nithish\College\coding\java> java dow
0
1
2
3
4
```

### 9.For-Each

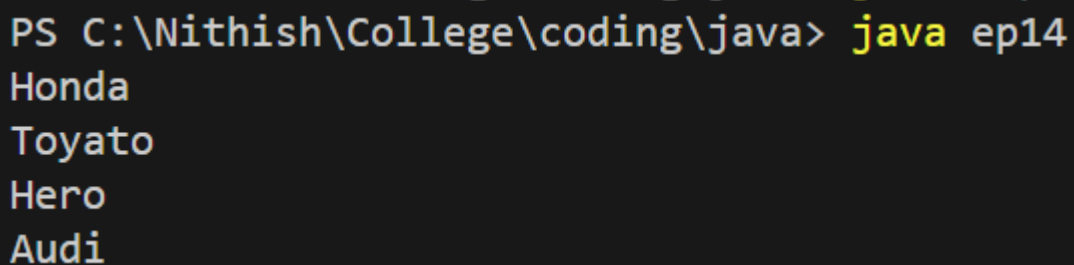
#### Code:

```

public class ep14{
    public static void main(String[] args){
        String[] cars={"Honda","Toyato","Hero","Audi"};
        for(String i:cars){
            System.out.println(i);
        }
    }
}

```

### Output



```

PS C:\Nithish\College\coding\java> java ep14
Honda
Toyato
Hero
Audi

```

public

### 10.Break

#### Code:

```

class ep15{
    public static void main(String[] args){
        for(int i=0;i<7;i++){
            if(i==5){
                break;
            }
            System.out.println(i);
        }
    }
}

```

### Output:

```
PS C:\Nithish\College\coding\java> java ep15
0
1
2
3
4
```

## **11.For Loop**

### **Code:**

```
public class for1{
    public static void main(String[] args){
        for(int i=0;i<7;i++){
            System.out.println(i);
        }
    }
}
```

### **Output**

```
PS C:\Nithish\College\coding\java> javac for1.java
PS C:\Nithish\College\coding\java> java for1
0
1
2
3
4
5
6
```

## **12.Continue:**

### **Code:**

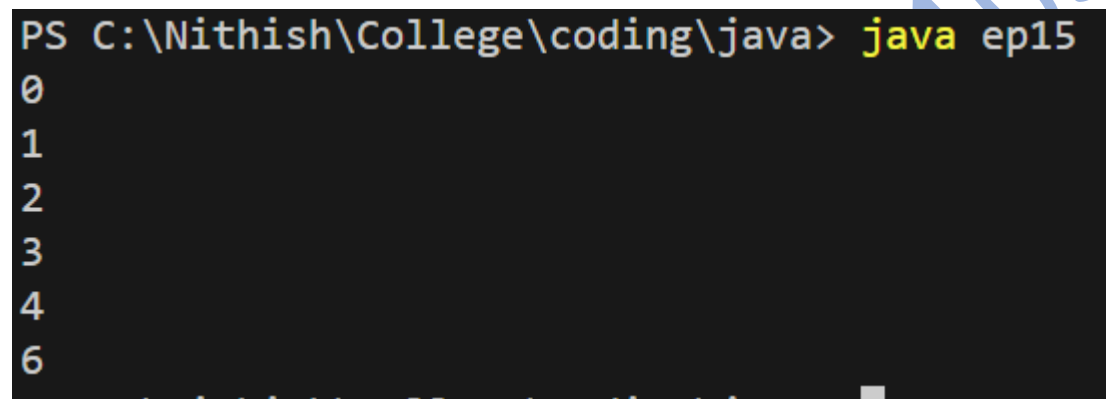
```
public class ep15{
    public static void main(String[] args){
        for(int i=0;i<7;i++){
```

```

        if(i==5){
            continue;
        }
        System.out.println(i);
    }
}
}

```

### **Output**



```

PS C:\Nithish\College\coding\java> java ep15
0
1
2
3
4
6

```

### **13. Getting input**

#### **Code:**

```

import java.util.Scanner;

public class ep16{
    public static void main(String[] args){
        Scanner myObj=new Scanner(System.in);
        String username;
        System.out.println("Enter your username: ");
        username=myObj.nextLine();
        System.out.println("Your username is: "+username);
    }
}

```

### **Output**

```
PS C:\Nithish\College\coding\java> java ep16
Enter your username:
Nithish
Your username is: Nithish
```

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**Date: 25-07-2024**

**GitHub Link:** <https://github.com/Nity05/Java-Sub.git>

## **1.Array to String**

### **Code:**

```
public class StringDemo{  
    public static void main(String args[]){  
        char[] Arr={'h','e','l','l','o'};  
        String St=new String(Arr);  
        System.out.println(St);  
    }  
}
```

### **Output**

```
PS C:\Nithish\College\coding\java> javac StringDemo.java  
PS C:\Nithish\College\coding\java> java StringDemo  
hello
```

## **2.Calculator**

### **Code:**

```
import java.util.Scanner;  
public class calc{  
    public static void main(String[] args){  
        int f=1;  
        while(f==1){  
            Scanner fl=new Scanner(System.in);  
            System.out.println("Enter your choice for performing arithmetic  
operation ");  
            System.out.println("1. Addition ");  
            System.out.println("2. Subtraction ");
```

```

System.out.println("3. Multiplication ");
System.out.println("4. Division ");
System.out.println("5. Modulus ");
System.out.println("6. Power ");
System.out.println("0 to Quit the program ");
int ch=fl.nextInt();
if(ch==0){
    System.out.println("Thank for using the Calculator");
    break;
}
System.out.print("Enter the first number: ");
double n1=fl.nextDouble();
System.out.print("Enter the second number: ");
double n2=fl.nextDouble();
double r;
switch (ch) {
    case 1:
        r=n1+n2;
        System.out.println("The output after performing addition is:
+r);
        break;
    case 2:
        r=n1-n2;
        System.out.println("The output after performing subtraction
is: "+r);
        break;
    case 3:

```



```

        r=n1*n2;
        System.out.println("The output after performing
multiplication is: "+r);
        break;
    case 4:
        r=n1/n2;
        System.out.println("The output after performing division is:
"+r);
        break;
    case 5:
        r=n1%n2;
        System.out.println("The output after performing modulus is:
"+r);
        break;
    case 6:
        r=Math.pow(n1,n2);
        System.out.println("The output after performing power is:
"+r);
        break;
    default:
        System.out.println("Enter valid choie");
        break;
}

```

```

    System.out.println("If you want to continue calculation enter 1
otherwise enter 0");

```

```

    int u=fl.nextInt();

```

```

    if(u!=1){

```

```

        f--;

```

```
    }  
}  
    System.out.println("Thank for using the Calculator");  
}  
}
```

## Output

```
PS C:\Nithish\College\coding\java> javac calc.java  
PS C:\Nithish\College\coding\java> java calc  
Enter your choice for performing arithmetic operation  
1. Addition  
2. Subtraction  
3. Multiplication  
4. Division  
5. Modulus  
6. Power  
0 to Quit the program  
1  
Enter the first number: 12  
Enter the second number: 13  
The output after performing addition is: 25.0  
If you want to continue calculation enter 1 otherwise enter 0  
1  
Enter your choice for performing arithmetic operation  
1. Addition  
2. Subtraction  
3. Multiplication  
4. Division  
5. Modulus  
6. Power  
0 to Quit the program  
2  
Enter the first number: 23  
Enter the second number: 22  
The output after performing subtraction is: 1.0  
If you want to continue calculation enter 1 otherwise enter 0  
1  
Enter your choice for performing arithmetic operation  
1. Addition  
2. Subtraction  
3. Multiplication  
4. Division
```

```
5. Modulus
6. Power
0 to Quit the program
3
Enter the first number: 5
Enter the second number: 5
The output after performing multiplication is: 25.0
If you want to continue calculation enter 1 otherwise enter 0
```

```
Enter your choice for performing arithmetic operation
1. Addition
2. Subtraction
3. Multiplication
4. Division
5. Modulus
6. Power
0 to Quit the program
4
Enter the first number: 6
Enter the second number: 3
The output after performing division is: 2.0
If you want to continue calculation enter 1 otherwise enter 0
1
Enter your choice for performing arithmetic operation
1. Addition
2. Subtraction
3. Multiplication
4. Division
5. Modulus
6. Power
0 to Quit the program
5
Enter the first number: 5
Enter the second number: 3
The output after performing modulus is: 2.0
If you want to continue calculation enter 1 otherwise enter 0
1
Enter your choice for performing arithmetic operation
1. Addition
2. Subtraction
3. Multiplication
4. Division
5. Modulus
6. Power
```

```
0 to Quit the program
6
Enter the first number: 3
Enter the second number: 3
The output after performing power is: 27.0
If you want to continue calculation enter 1 otherwise enter 0
0
Thank for using the Calculator
PS C:\Nithish\College\coding\java>
```

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