

```
-----  
  
class BoolTest {  
    public static void main(String args[]) {  
        boolean b;  
        b = false;  
        System.out.println("b is " + b);  
        b = true;  
        System.out.println("b is " + b);  
        if(b) System.out.println("Boolean condition Test ");  
        b = false;  
        if(b) System.out.println("Java has beautiful boolean feature");  
        System.out.println("10 > 9 is " + (10 > 9));  
    }  
}
```

```
-----  
  
class IncDec {  
  
    public static void main(String args[]) {  
        int a = 1;  
        int b = 2;  
        int c;  
        int d;  
        c = ++b;  
        d = a++;  
        c++;  
        System.out.println("a = " + a);  
        System.out.println("b = " + b);  
        System.out.println("c = " + c);  
        System.out.println("d = " + d);  
    }  
}
```

```
-----  
  
class IncDec2 {  
    public static void main(String args[]) {  
        int a = 1;  
        int b = 2;  
        int c;  
        int d;  
  
        c = ++b;  
        d = a++;
```

```

c++;
System.out.println("a = " + a);
System.out.println("b = " + b);
System.out.println("b = " +a+ b);
System.out.println("b = " +a+ b++);
System.out.println("c = " + c);
System.out.println("d = " + d);
System.out.println("b = " ++c+d));
}
}

```

```

public class Test {
    public static void main(String[] args){
        int a=16, b=7;
        System.out.println("First line: " + a + b);
        System.out.println("A =" + a + " b=" + b);
        System.out.println("A =" + "a" + "b=" + " b");
        System.out.println("A " + "-B =" + (a - b) );
        System.out.println("A =" + ++a + " b=" + b++);
        System.out.println("The last code: " + b + a);
    }
}

```

```

class Conversion {
    public static void main(String args[]) {
        byte b;
        int i = 258;
        double d = 23.142;
        System.out.println("\nConversion of int to byte.");
        b = (byte) i;
        System.out.println("i and b " + i + " " + b);

        System.out.println("\nConversion of double to int.");
        i = (int) d;
        System.out.println("d and i " + d + " " + i);

        System.out.println("\nConversion of double to byte.");
        b = (byte) d;
        System.out.println("d and b " + d + " " + b);
    }
}

```

```

-----
class Test{
public static void main(String args [ ]) {
int twoD[][]=new int[3][4];
int i,j,k=0;
for(i=0;i<3;i++){
    for (j=0;j<4; j++){
        twoD[i][j]=k;
        k+=10;
    }
}
for(i=0;i<3;i++){
    for (j=0;j<4; j++)
        System.out.print(twoD[i][j]+" ");

    System.out.println();
}
}
}
-----

```

```

        public class Continue2 {
            public static void main(String args[]) {
                int nums[] = { 22, 4, 3, 7, 8, 9, 10,12,13,14,16, 18,17,24 };
                for(int i : nums) {
                    System.out.print(i + " ");
                    if (i%4 != 0)
                        continue;
                    System.out.println("#");
                    if (i==16|| i==17) break;
                }
            }
        }

```

```

-----
class Copntinue2 {
    public static void main(String args[]) {
        int nums[] = { 22, 4, 3, 7, 8, 9, 10,12,13,14,15,16 };
        for(int i : nums) {
            System.out.print(i + " ");
            if (i%3 == 0)
                System.out.println("");
            else continue;
            if (i==15) break;
        }
    }
}

```

```

-----

class CallTest2 {
    int x, y;
    void CallV(int i, int j) {
        i = i+3;
        j = j-2;
        System.out.println("Expression in calcV method is: "+ i+" "+j);
    }
    void calc(CallTest2 o) {
        System.out.println("Expression in calc method is: "+ (o.x*3)+o.y);
        o.x += 6;
        o.y /= 7;
    }
}

class Calling2 {
    public static void main(String args[]) {
        CallTest2 ob = new CallTest2();
        ob.x=10;
        ob.y=7;
        ob.CallV(35,9);
        System.out.println("Before call 1: " + ob.x + " " + ob.y);
        System.out.println("Before call 2: " + (ob.x + ob.y));
        ob.calc(ob);
        System.out.println("after call 1: " + ob.x + " " + ob.y);
        System.out.println("after call 2: " + (ob.x + ob.y));
    }
}

```

```

-----

class Testin {
    int a, b;

    Testin(int i, int j) {
        System.out.println("Constructor call: ");
        a = i;
        b = j;
    }
    void calc(Testin o) {
        System.out.println("Expression in calc is: "+ (o.a*2));
        o.a += 7;
        o.b /= 3;
    }
}

```

```

class CallBy {
    public static void main(String args[]) {
        Testin ob = new Testin(12, 33);

        System.out.println("call 1: " + ob.a + " " + ob.b);
        System.out.println("call 2: " + (ob.a + ob.b));
        ob.calc(ob);
    }
}

```

```

        System.out.println("call 3: " + ob.a + " " + ob.b);
        System.out.println("call 4: " + (ob.a + ob.b));
        System.out.println("call 5: " + ob.a + ob.b);
    }
}

```

```

-----

class A {
    static int a;
}
class B {
    static int b;
}

```

```

public class TEST {
    public static void main(String args[])
    {
        A.a=1;
        B.b=2;
        A ob= new A();
        B ob2=new B();
        ob.a=10;
        ob2.b=5;
        System.out.println(" A.a "+A.a);
        System.out.println(" B.b "+B.b);
        System.out.println(" ob.a "+ob.a);
        System.out.println(" ob2.b "+ob2.b);
        ob.a=14;
        ob2.b=23;
        System.out.println(" A.a "+A.a+ob.a);
        System.out.println(" B.b "+B.b+ob2.b);
    }
}

```

```

-----

class StringDemo3 {
    public static void main(String args[]) {
        String str[] = { "one", "two", "three" };

        for(int i=0; i<str.length; i++)
            System.out.println("str[" + i + "]: " + str[i]);
        System.out.println(str[0]+ str[1]);
        System.out.println((str[0]+ str[2]).length());
        System.out.println(str[0].length()+ str[1]);
    }
}

```

Part-2

```
class ExamException{
    public static void main(String args[]){
        try{
            int a[]=new int[7];
            System.out.println("Exception Test");
            a[4]=30/0;
            System.out.println("First print statement in try block");
        }
        catch(ArithmeticException e){
            System.out.println("Warning: ArithmeticException");
            try{
                int a[]=new int[7];
                a[9]=5;
                System.out.println(" Is it OK ?");
            }
            catch(ArrayIndexOutOfBoundsException e2){
                System.out.println("Warning: inside ");
            }
        }
        catch(ArrayIndexOutOfBoundsException e){
            System.out.println("Warning: ArrayIndexOutOfBoundsException");
        }
        catch(Exception e){
            System.out.println("Warning: Some Other exception");
        }
        finally{
            System.out.println("The Finally block");
        }
        System.out.println("Out of try-catch block...");
    }
}
```

```
class ExceptionTest{
    public static void main(String args[]){
        try{
            int a[]=new int[7];
            a[4]=30/0;
```

```
        System.out.println("First print statement in try block");
    }
    catch(ArithmeticException e){
        System.out.println("Warning: ArithmeticException");
        try{
            int a[]=new int[7];
            a[9]=5;
            System.out.println(" Is it OK ?");
        }
        catch(ArrayIndexOutOfBoundsException e2){
            System.out.println("Warning: inside ");
        }
    }
    catch(ArrayIndexOutOfBoundsException e){
        System.out.println("Warning: ArrayIndexOutOfBoundsException");
    }
    catch(Exception e){
        System.out.println("Warning: Some Other exception");
    }
    finally{
        System.out.println("The Finally block");
    }
    System.out.println("Out of try-catch block...");
}
}
```