ASSESSMENT QUESTIONS

1. Write a program to check if a list of integers contain odd numbers.

```
ANS
import java.util.*;
public class ArrayF {
      public static boolean isOdd(ArrayList<Integer> arr) {
             for(int i:arr) {
                    if(i%2==0) {
                          return false;
                    }
             return true;
      }
      public static void main(String[] args) {
             ArrayList<Integer> arr=new ArrayList<Integer>();
             arr.add(3);
             arr.add(45);
             arr.add(55);
             arr.add(43);
             boolean c=isOdd(arr);
             System.out.println(c);
      }
}
   Output:
   true
```

2. Define default switch case with example

ANS

Default switch case

It specifies some code to run if there is no case match in the switch.

For example:

```
int a=4;
switch(a){
case 1:
    sout("1");
```

```
case 2:
    sout("2");
default:
    sout("it is an integer");
}
Here there is no satisfying case condition so default statement will execute.
```

3. Write a program to swap 2 numbers without using the third variable

ANS

```
public class SwapTwoWithoutThirdVar {
    public static void main(String[] args) {
        int a=5,b=8;
        a=a+b;
        b=a-b;
        a=a-b;
        System.out.println("A="+a+"\nB="+b);
    }

Output:

A=8
B=5
```

4. Write a Java Program to find Length/Size of Integer ArrayList - Add and remove elements from the list and print the size before each process

ANS

5. What are the various access specifiers for Java classes?

ANS

- Public
- Private
- Protected
- Default

6. How can an exception be thrown manually by a programmer? Explain with an example

Ans:

An exception can be manually thrown using throw and throws class.

Example for throw:

```
public class ThrowsDem {
    void numcheck(int n)throws Exception{
        if(n==0) {
            throw new Exception("0 is not valid");
        }
        else {
            System.out.println("Valid");
        }
}
```

```
public static void main(String[] args) {
          ThrowsDem o=new ThrowsDem();
          try {
                o.numcheck(0);
        }
        catch(Exception e) {
                System.out.println(e);
        }
    }
}
Output:
java.lang.Exception: 0 is not valid
```

7. What will be the output of the following program?

- a. 15 times ***
- b. 15 times +++++
- c. 8 times *** and 7 times +++++
- d. Both will print only once

c.	8 times	***	and 7	7 times	+++++
