Session 2 > Assignment 1

Task 1. Write a program to find the highest among the given 3 numbers.

Solution: Below is the JAVA program (Also attaching the file "Session2Prg1.java")

```java
//This is a program to find the highest among the given 3 numbers.

import java.io.*;

import java.util.Scanner;

class Session2Prg1

{

        public static void main(String a[])

        {

                Scanner sc = new Scanner(System.in);

                System.out.println("Enter first integer number: ");

                int x = sc.nextInt();

                System.out.println("Enter second integer number: ");

                int y = sc.nextInt();

                System.out.println("Enter third integer number: ");

                int z = sc.nextInt();

                if( x > y && x > z)

                System.out.println("The largest number is " +x);

                else if (y > x && y > z)

                System.out.println("The largest number is " +y);

                else if (z > x && z > y)

                System.out.println("The largest number is " +z);

                else

                System.out.println("The numbers are not distinct!");
```
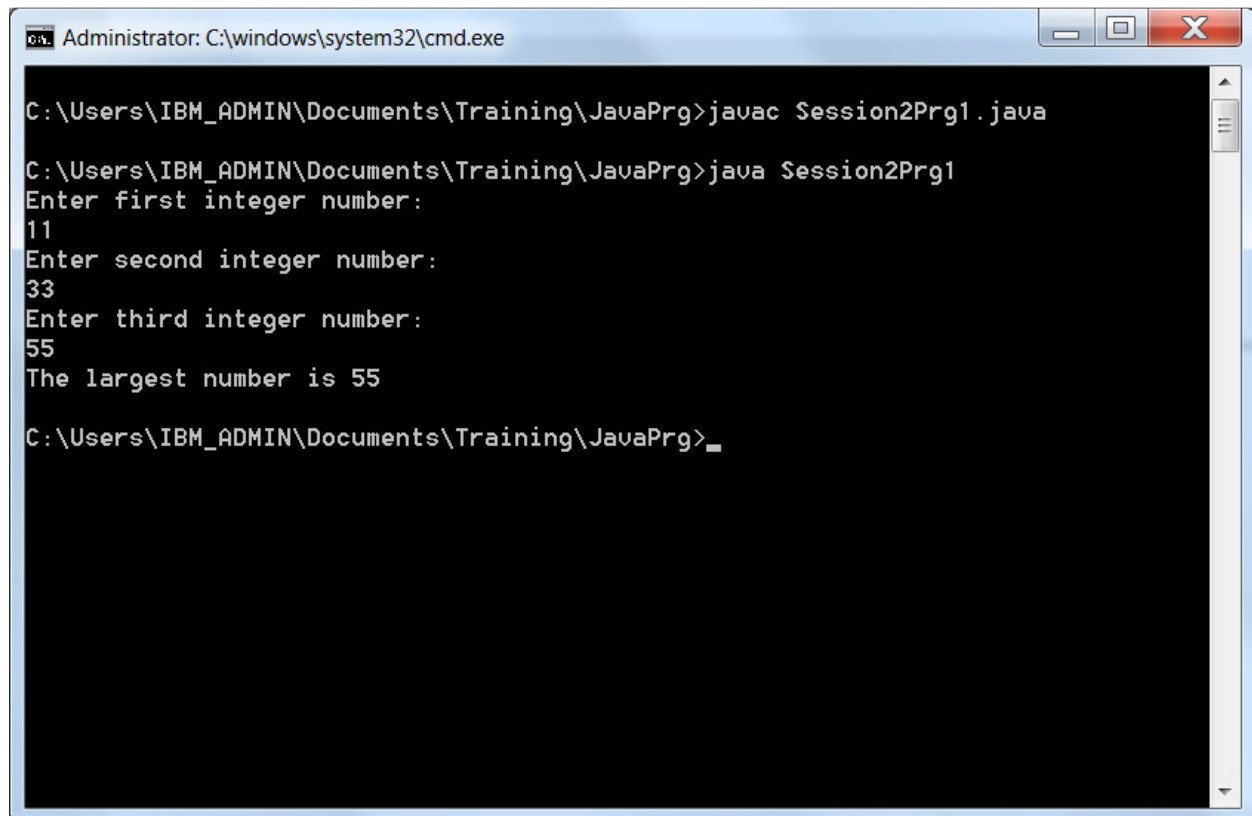
```
        }

}
```

The Output of this program:

```
Administrator: C:\windows\system32\cmd.exe

C:\Users\IBM_ADMIN\Documents\Training\JavaPrg>javac Session2Prg1.java

C:\Users\IBM_ADMIN\Documents\Training\JavaPrg>java Session2Prg1
Enter first integer number:
11
Enter second integer number:
33
Enter third integer number:
55
The largest number is 55

C:\Users\IBM_ADMIN\Documents\Training\JavaPrg>_
```

Task 2. Write a java program to print the following pattern:

```
*   *
 * *
  *
 * *
*   *
```

Solution: Below is the JAVA program (Also attaching the file "Session2Prg2.java")

This pattern have 5 rows & 5 columns.

Condition1 marked in YELLOW: When row No = column No then it contains *

Condition2 marked in GREEN: When row No + column No = 6 then it contains *

Row/Column	1	2	3	4	5
1	*				*
2		*		*	
3			*		
4		*		*	
5	*				*

```
/*A java program to print the following pattern:

*   *

 * *

  *

 * *

*   *



*/


import java.util.*;

import java.io.*;

class Session2Prg2

{
```
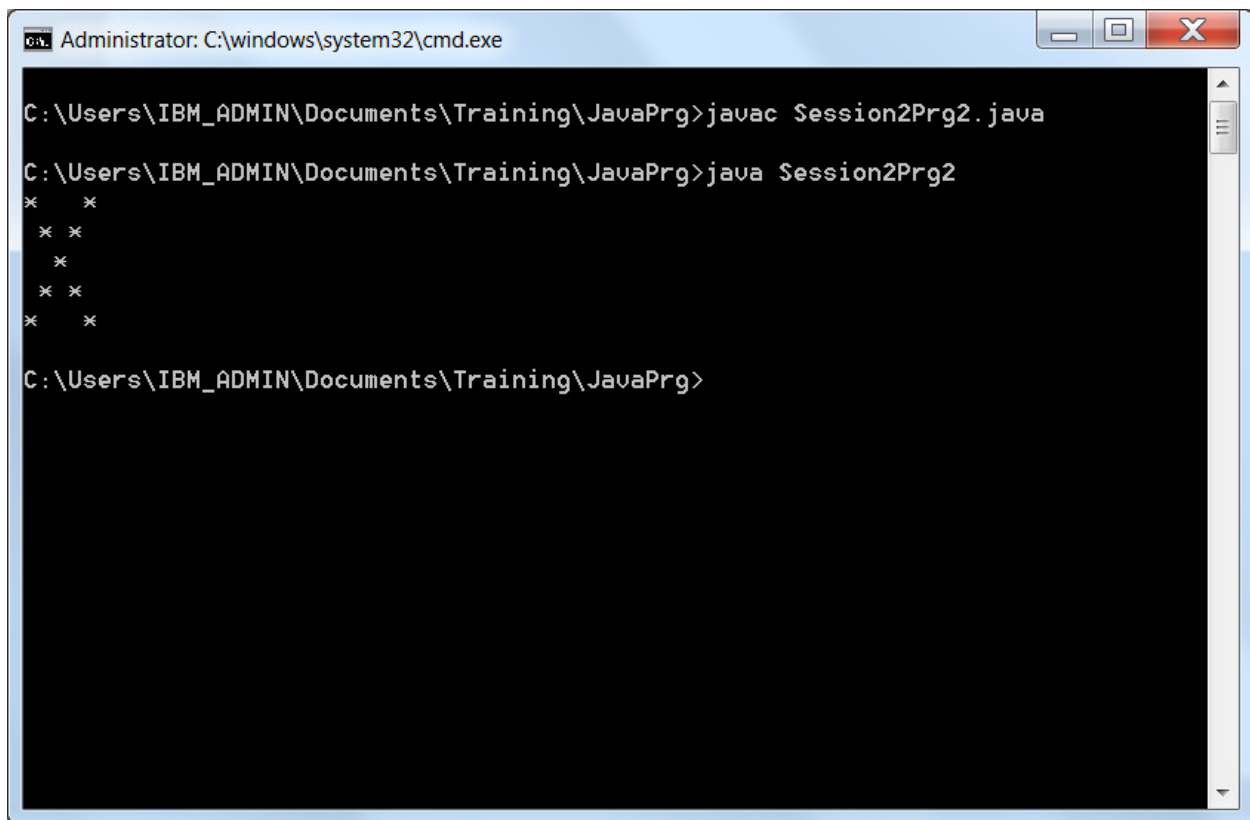
```java
public static void main(String a[])

{

        for(int i=1;i<=5;i++){

                for(int j=1;j<=5;j++){

                        int sum = i + j;

                        if (i==j)

                        {

                        System.out.print("*");

                        }

                        else if (sum == 6)

                        {

                        System.out.print("*");

                        }

                        else

                        {

                        System.out.print(" ");  //To print blank

                        }

                }

                System.out.println("");  //To go to next line

        }

}
}
```

The Output of this program:

```
Administrator: C:\windows\system32\cmd.exe                    [_][□][X]

C:\Users\IBM_ADMIN\Documents\Training\JavaPrg>javac Session2Prg2.java

C:\Users\IBM_ADMIN\Documents\Training\JavaPrg>java Session2Prg2
*    *
 * *
  *
 * *
*    *

C:\Users\IBM_ADMIN\Documents\Training\JavaPrg>
```