

## 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")

```
//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();

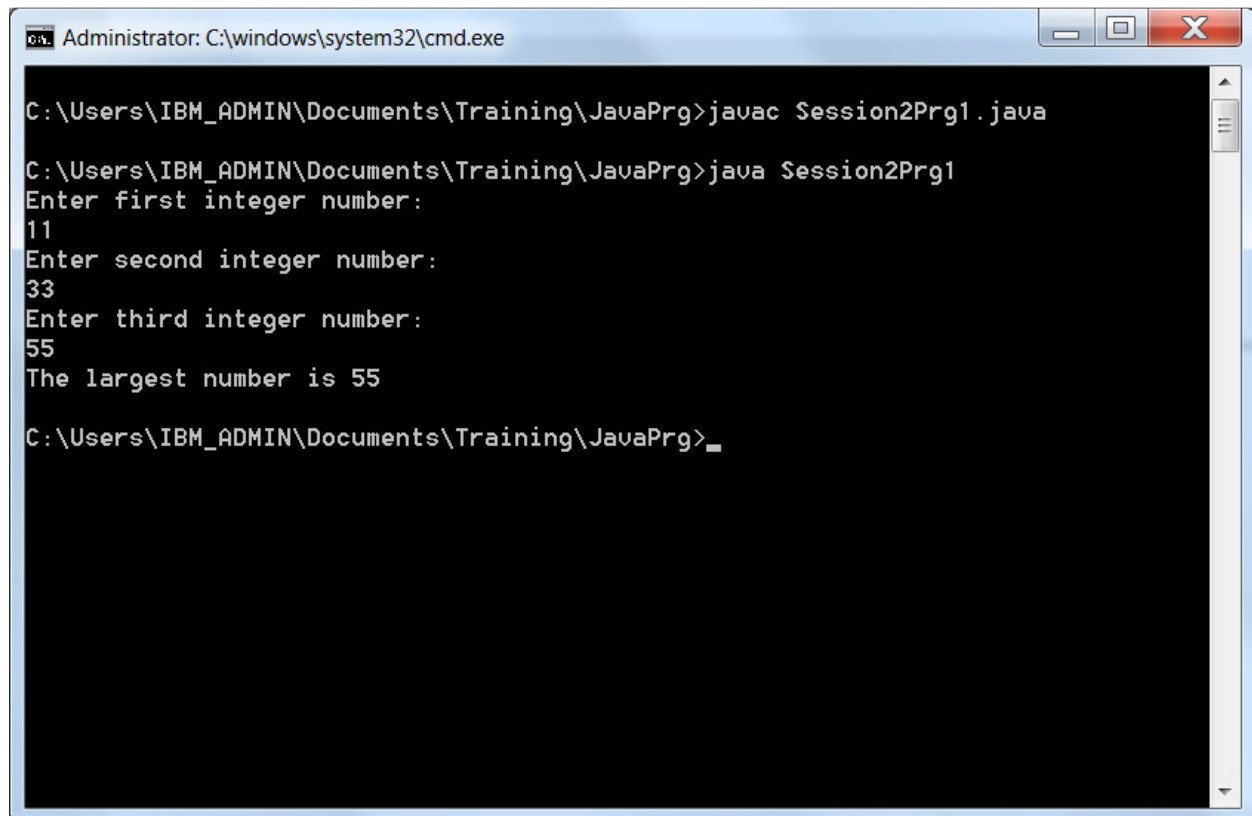
        System.out.println("Enter second integer number: ");
        int y = sc.nextInt();

        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.*;
```

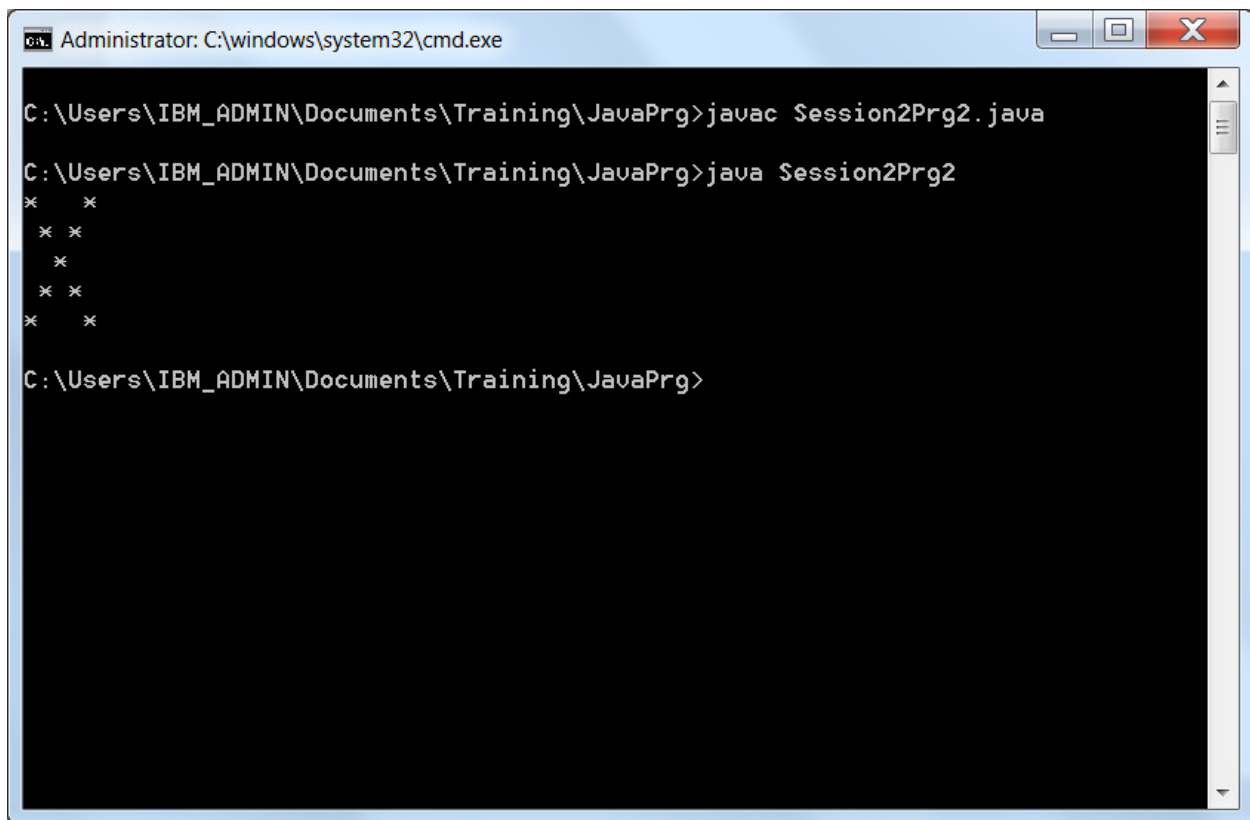
```
import java.io.*;
```

```
class Session2Prg2
```

```
{
```

```
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:



A screenshot of a Windows command prompt window. The title bar at the top reads "Administrator: C:\windows\system32\cmd.exe" and includes standard minimize, maximize, and close buttons. The command prompt shows the following sequence of commands and output:

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

The output of the Java program consists of a pattern of 'x' characters arranged in six lines: two 'x's, two 'x's followed by a space, a space followed by one 'x', two 'x's, two 'x's followed by a space, and two 'x's.