

## ASSIGNMENT 2

**Assignment 2 on Session2: FLOW CONTROL, CONSTRUCTORS AND STRING****Problem Statement1:**

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

**Solution:**

```
import java.util.Scanner; //To import utility files for Scanner

class FindGrtNum
{
    public static void main(String a[])
    {
        Scanner sc=new Scanner(System.in); //To get keyboard input
        System.out.println("Enter only integer values");
        System.out.println("Enter First number");
        int num1=sc.nextInt(); //To assign first keyboard input
        System.out.println("Enter Second number");
        int num2=sc.nextInt(); //To assign second keyboard input
        System.out.println("Enter Third number");
        int num3=sc.nextInt(); //To assign third keyboard input
        if (num1>num2 && num1>num3) //condition1
            System.out.println(num1+" is greater than "+num2+" and "+num3);
        else if(num2>num3) //condition2
            System.out.println(num2+" is greater than "+num1+" and "+num3);
        else
            System.out.println(num3+" is greater than "+num1+" and "+num2);

    }
}
```

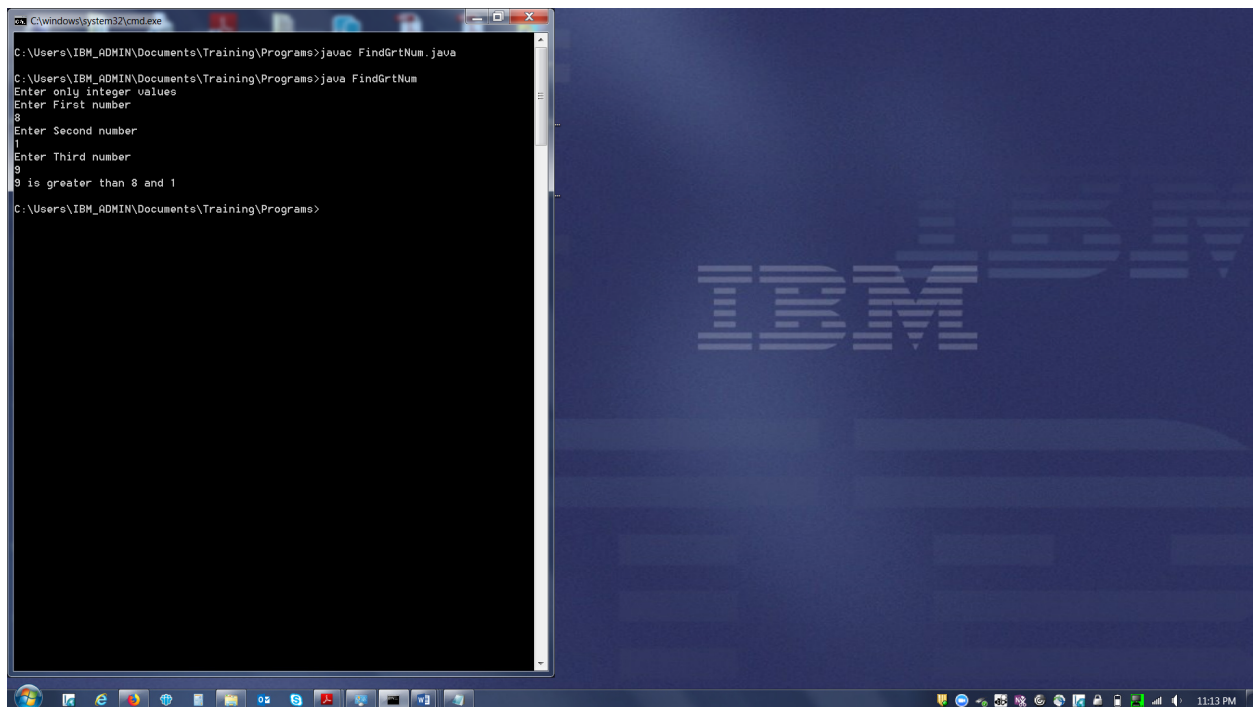
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**Explanation of the code:**

The code gets 3 inputs from the user and finds the greater number among the 3 inputs. 3 integer variables declared to get and store 3 inputs. Simple logic of number comparison is applied to find the greater number – if a is > b and c then a is greater. Else if b is > c then b is greater. Else c is greater.

Note: The code is not covered for handling the below

1. if user enters any value other than integer
2. if all the 3 inputs are same

**Result flow & Screen shot:**

```
C:\windows\system32\cmd.exe
C:\Users\IBM_ADMIN\Documents\Training\Programs>javac FindGrtNum.java
C:\Users\IBM_ADMIN\Documents\Training\Programs>java FindGrtNum
Enter only Integer values
Enter First number
8
Enter Second number
1
Enter Third number
9
9 is greater than 8 and 1
C:\Users\IBM_ADMIN\Documents\Training\Programs>
```

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**Problem Statement2:**

Write a program to print the following pattern:

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

**Solution:**

```
import java.util.*; //To import utility files

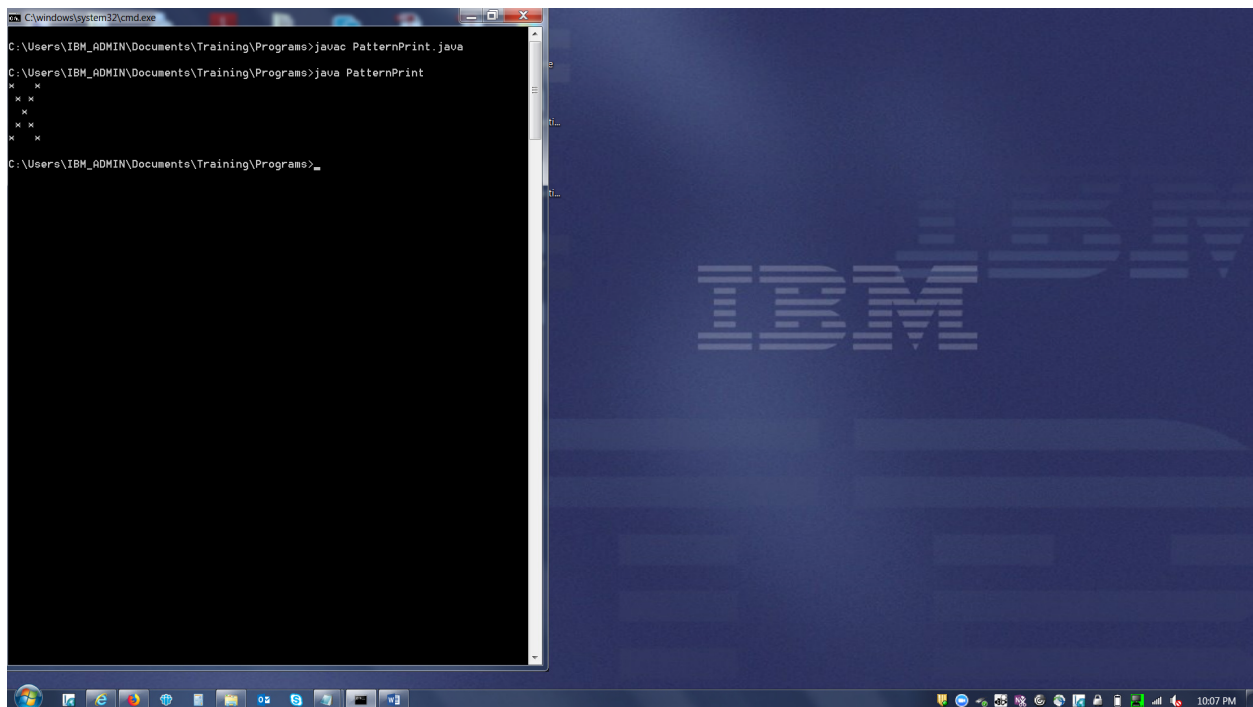
class PatternPrint
{
    public static void main(String a[])
    {
        for(int i = 1; i <= 5; i++) //To count the number of rows
        {
            for(int j = 1; j <= 5; j++) //To count the number of columns
            {
                if( ((i==1)&&(j==1)) || //To position in 1,1 for printing *
                    ((i==1)&&(j==5)) || //To position in 1,5 for printing *
                    ((i==2)&&(j==2)) || //To position in 2,2 for printing *
                    ((i==2)&&(j==4)) || //To position in 2,4 for printing *
                    ((i==3)&&(j==3)) || //To position in 3,3 for printing *
                    ((i==4)&&(j==2)) || //To position in 4,2 for printing *
                    ((i==4)&&(j==4)) || //To position in 4,4 for printing *
                    ((i==5)&&(j==1)) || //To position in 5,1 for printing *
                    ((i==5)&&(j==5)) ) //To position in 5,5 for printing *
                System.out.print("*");
```

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```
else  
    System.out.print(" ");  
}  
System.out.println();  
}  
}  
}
```

**Explanation of the code:**

This program uses simple logic. Two for loops used for counting the number of rows and number of columns. By keeping 5x5 matrix, the row and column positions calculated. As per the pattern the \* is printed in the calculated positions. Rest of the positions filled with space.

**Result flow and screen shot:**

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