

1. Problem Statement: Write a program to find the highest among the given 3 numbers.

1.1 Source Code: file name – Highest.java

```
import java.util.Scanner;
public class Highest {
    public static void main(String[] args) {
        Scanner sc=new Scanner(System.in);
        System.out.println("Provide 3 numbers to find the highest among
them");
        /* This program is to find the highest among given 3 numbers.
        * As this involves decision I am using if-else to find the
highest number*/
        System.out.println("Enter Number 1- ");
        int num1 = sc.nextInt();
        System.out.println("Enter Number 2- ");
        int num2 = sc.nextInt();
        System.out.println("Enter Number 3- ");
        int num3 = sc.nextInt();
        System.out.println("Given numbers are "+num1+", "+num2+",and
"+num3);
        if ((num1>num2)&&(num1>num3)) // here we are comparing num1 with
num2 and num3
            System.out.println("The highest number is: "+num1);
        else if ((num2>num1)&&(num2>num3)) // here we are comparing num2
with num1 and num3
            System.out.println("The highest number is: "+num2);
        else
            System.out.println("The highest number is: "+num3);
        sc.close();
    }
}
```

1.2 Output:

```
Provide 3 numbers to find the highest among them
Enter Number 1-
45
Enter Number 2-
89
Enter Number 3-
456
Given numbers are 45, 89,and 456
The highest number is: 456
```

1.3Output Screenshots:

```
1 import java.util.Scanner;
2 public class Highest {
3     public static void main(String[] args) {
4         Scanner sc=new Scanner(System.in);
5         System.out.println("Provide 3 numbers to find the highest among them");
6         /* This program is to find the highest among given 3 numbers.
7          * As this involves decision I am using if-else to find the highest number*/
8         System.out.println("Enter Number 1- ");
9         int num1 = sc.nextInt();
10        System.out.println("Enter Number 2- ");
11        int num2 = sc.nextInt();
12        System.out.println("Enter Number 3- ");
13        int num3 = sc.nextInt();
14        System.out.println("Given numbers are "+num1+", "+num2+",and "+num3);
15        if ((num1>num2)&&(num1>num3)) // here we are comparing num1 with num2 and num3
16            System.out.println("The highest number is: "+num1);
17        else if ((num2>num1)&&(num2>num3)) // here we are comparing num2 with num1 and num3
18            System.out.println("The highest number is: "+num2);
19        else
20            System.out.println("The highest number is: "+num3);
21        sc.close();
22    }
23 }
24
```

Problems @ Javadoc Declaration Console

<terminated> Highest [Java Application] C:\Program Files\Java\jdk-11.0.1\bin\javaw.exe (Nov 22, 2018, 12:16:40 AM)

Provide 3 numbers to find the highest among them

Enter Number 1-

45

Enter Number 2-

89

Enter Number 3-

456

Given numbers are 45, 89,and 456

The highest number is: 456

2. Problem Statement: Write a program to print the following pattern:

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

2.1 Source Code: File Name – PatternX.java

```
public class PatternX
{
    public static void main(String[] args)
    {
        int num=5; // Pattern provided in statement is in 5 lines
        System.out.println("Printing X Pattern -\n");
        for(int i=0;i<num;i++) //this loop is used to enter into new line
```

```

        {
            for(int j=0;j<num;j++) // this loop is used for printing the
pattern
            {
                if(j==i || j==num-i-1)
                    System.out.print("*");
                else
                    System.out.print(" ");
            }
            System.out.println();
        }
    }
}

```

2.2 Output:

Printing X Pattern -

```

*   *
 *  *
  *
 *  *
*   *

```

2.3 Output Screenshots:

```

Hello.java Operators.java Highest.java PrintingX.java SumOfTwo.java PatternX.java
1 public class PatternX
2 {
3     public static void main(String[] args)
4     {
5         int num=5; // Pattern provided in statement is in 5 lines
6         System.out.println("Printing X Pattern -\n");
7         for(int i=0;i<num;i++) //this loop is used to enter into new line
8         {
9             for(int j=0;j<num;j++) // this loop is used for printing the pattern
10            {
11                if(j==i || j==num-i-1)
12                    System.out.print("*");
13                else
14                    System.out.print(" ");
15            }
16            System.out.println();
17        }
18    }
19 }
20 }
21

Problems @ Javadoc Declaration Console
<terminated> PatternX [Java Application] C:\Program Files\Java\jdk-11.0.1\bin\javaw.exe (Nov 22, 2018, 12:24:37 AM)
Printing X Pattern -

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

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