

## EXTRA PRACTICAL (24/04/2021)

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**Program 1: To find sum of numbers entered as command line arguments.**

```
import java.io.*;
public class SumElements {
    public static void main(String args[])
    { intnum,sum=0;
    System.out.println("Command line Arguments are 10,20,30");
        for(inti=0;i<args.length;i++)
    { num=Integer.parseInt(args[i]);
        sum=sum+num;
    }
    System.out.println("Sum of Elements is : "+sum);
    }
}
```

**Output:**

```
C:\Users\Lenovo\Favorites\Desktop\JAVA>java Second 10 20 30
Command line Arguments are 10,20,30
Sum of Elements is : 60
```

**Program 2: Find the factorial.**

```
import java.util.Scanner; //importing package where Scanner is a class;
class Factorial
{
    public static void main(String args[])
    {
        int fact=1,num;
        Scanner n=new Scanner(System.in);
        System.out.println("Enter the number that you want to factorial: ");
        num=n.nextInt();
        for(int i=1;i<=num;i++)
            fact*=i;
        System.out.println("Factorial is: "+fact);
    }
}
```

**Output:**

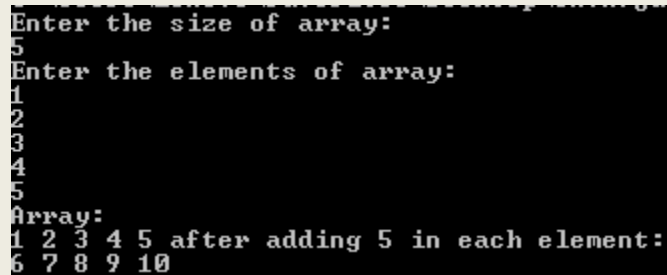
```
C:\Users\Lenovo\Favorites\Desktop\JAVA>java se
Enter the number that you want to factorial:
5
Factorial is: 120
```

**Program 3: To learn use of single dimensional array by defining the array is dynamically.**

//Single dimensional array

```
import java.util.Scanner; //importing package where Scanner is a class;
class OneDim
{
    public static void main(String args[])
    {
        int a[]=new int[10],s;
        Scanner size=new Scanner(System.in);
        System.out.println("Enter the size of array: ");
        s=size.nextInt();
        System.out.println("Enter the elements of array: ");
        for(int i=0;i<s;i++)
            a[i]=size.nextInt();
        System.out.println("Array: ");
        for(int i=0;i<s; i++)
            System.out.print(a[i]+" ");
        for(int x=0;x<s;x++)
            a[x]=a[x]+5;
        System.out.println("after adding 5 in each element: ");
        for(int j=0;j<s;j++)
            System.out.print(a[j]+" ");
    }
}
```

**Output:**



The screenshot shows the output of the Java program. It starts with the prompt "Enter the size of array:" followed by the input "5". Then it prompts "Enter the elements of array:" followed by inputs "1", "2", "3", "4", and "5". The output then shows "Array:" followed by "1 2 3 4 5". Finally, it shows "after adding 5 in each element:" followed by "6 7 8 9 10".

**Program 4: To learn use of two dimensional array by defining the array is dynamically.**

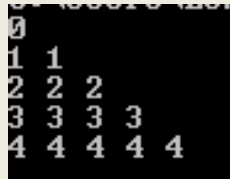
```
import java.util.Scanner; //importing package where Scanner is a class;
class Second
{
    public static void main(String args[])
    {
        int a[][]=new int[5][];
        a[0]=new int[1];
        a[1]=new int[2];
        a[2]=new int[3];
        a[3]=new int[4];
        a[4]=new int[5];
        int k=0;
```

```
for(int i=0;i<5;i++)
{
    for(int j=0;j<i+1;j++)
        a[i][j]=k;
    k++;
}
for(int i=0;i<5;i++)
{
    for(int j=0;j<i+1;j++)

        System.out.print(a[i][j]+" ");

    System.out.println();
}
}
```

**Output:**



```
0
1 1
2 2 2
3 3 3 3
4 4 4 4 4
```