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:

```
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:

```
Enter the size of array:
5
Enter the elements of array:
1
2
3
4
5
Array:
1 2 3 4 5 after adding 5 in each element:
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: