## Hybrid Inheritance-
## 1.Accept 2.Array Ascending Order 3.Greatest Order 4.Sum of Digit

```
import java.util.Scanner;

public class hybrid_inh{

	public static void main(String[] args) {
		// TODO Auto-generated method stub

	  Ascending obj=new Ascending();
	  obj.asce();
	  Greater obj1=new Greater();
	  obj1.grt();
	  Sum obj2=new Sum();
	  obj2.sum();
	}
}
class Accept
{
	int size,i;

	public int[] acc() {

		Scanner sc=new Scanner(System.in);
		System.out.println("\nEnter the size:");
		size=sc.nextInt();
	    int[] arr=new int[size];
	    System.out.println("\nEnter "+size+" Numbers:");

		for(int i=0;i<size;i++)
		{
			arr[i]=sc.nextInt();
		}
		return arr;
	}
}
class Ascending extends Accept
{
	public  void asce() {

		System.out.println("Array in Ascending Order:");
		int j,temp;
		int[] arr=acc();
		System.out.print("\nThe Number are:");
		for(i=0;i<size;i++)
		{
			System.out.print(" " +arr[i]);
		}
		for(i=0;i<size;i++)
		{
			for(j=i+1;j<size;j++)
			{
				if(arr[i]>arr[j])
				{
					temp=arr[i];
					arr[i]=arr[j];
				    arr[j]=temp;
```

```
                        }
                    }
                }
                System.out.print("\nAscending Order:");
                for(i=0;i<size;i++)
                {
                    System.out.print(" " +arr[i]);
                }
        }
}

class Greater extends Ascending
{
        public void grt() {

                System.out.println("\n\nGreatest 3 numbers:");
                int a,b,c,max;
                int[] arr=acc();

                max=arr[0];
                for(int i=0;i<size;i++)
                {
                    if(max<arr[i])
                    {
                        max=arr[i];
                    }
                }
                System.out.println("\nGreatest number:" +max);
        }
}
class Sum extends Accept
{
        public void sum() {

                System.out.println("\nSum of digits in a numbers:");
                int[] arr=acc();
                int sum=0,n=arr[0],r,q;

                do {
                    r=n%10;
                    sum=sum+r;
                    q=n/10;
                    n=q;
                }while(n>0);
                    System.out.println("\nThe no is: "+arr[0]+" sum is: "
+sum);
                }
}
```

**OUTPUT-**

```
Array in Ascending Order:

Enter the size:
5

Enter 5 Numbers:
67
45
90
83
71

The Number are: 67 45 90 83 71
Ascending Order: 45 67 71 83 90

Greatest 3 numbers:

Enter the size:
3

Enter 3 Numbers:
67
90
54

Greatest number:90

Sum of digits in a numbers:

Enter the size:
1

Enter 1 Numbers:
123

The no is: 123 sum is: 6
```