```
public class UseNum {
public class Num {
                                                  public static void main(String[] args) {
  private int a,b;
                                                 Num N1=new Num();
  public void setNum(int i,int j){
                                                  ✓ Num N2=new Num();
    a=i;
                                                 N1.setNum(10,20);
    b=i;
                                                 N2.setNum(30,40);
  }
                                                    System.out.println("Before swapping:"
  public void showNum(){
                                                    N1.showNum(); a = 10, b = 20
    System.out.println("a="+a+",b="+b);
                                                   LN2.showNum(); a= 3ット:へい
  public void swap(Num P,Num Q)
                                                    Num Temp=new Num();
                                                    Temp.swap(N1,N2);
                                                    System.out.println("After swapping:");
                                                    N1.showNum();
    x=P.a;
                                                    N2.showNum();
    P.a=Q.a;
                                                  }
    Q.a=x;
                                                }
    x=P.b;
    P.b=Q.b;
    Q.b=x;
  }
}
```

```
public class UseNum {
public class Num {
                                                 public static void main(String[] args) {
  private int a,b;
                                                Num N1=new Num();
  public void setNum(int i,int j){
                                                 ✓ Num N2=new Num();
    a=i;
                                               N1.setNum(10,20);
    b=j;
                                                N2.setNum(30,40);
                                                   System.out.println("Before swapping:
  public void showNum(){
                                                   N1.showNum(); a = 10, b= 20
    System.out.println(a=+a+,b=+b);
                                                  LN2.showNum(); ぬこ3ッ, りょんい
                                                   Num Temp=new Num();
  public void swap(Num P,Num
                                                   Temp.swap(N1,N2);
                                                   System.out.println("After swapping:")
                                                   N1.showNum();
                                                   N2.showNum();
  }
```

## Passing Array Reference As Argument To Method

```
access mod <ret_type> <method_name>(<data type>[] <array_ref>)
{
    // method body
}
```

## Exercise:

=====

WAP to create a class called **MyMath** having a method called **sum()** which should accept an integer array as argument and should return the sum of all the elements of that array.

Now design the driver class called **UseMyMath**. Declare an integer array of 5 elements, accept input from the user in that array and using the method **sum()** of **MyMath** class, calculate and display the sum of array elements

```
package arraypassing;
public class MyMath {
                                        import java.util.Scanner;
  public int sum(int [] brr){
                                        public class UseMyMath {
     int total=0:
                                          public static void main(String[] args) {
     for(int x:brr)
                                        int []arr=new int[5];
        total + = x:
                                             Scanner kb=new Scanner(System.in);
     return total;
                                             for(int i=0;i<arr.length;i++){</pre>
  }
                                               System.out.println("Enter no:");
                                               arr[i]=kb.nextInt();
}
                                             MyMath obj=new MyMath();
                                             int total;
                                             total=obj.sum(arr);
                                             System.out.println("Sum is "+total);
                                          }
```

## Exercise:

=====

Modify the previous code by making following changes in **MyMath** class:

- a. Rename the method sum() to calculate()
- b. The method calculate should now return sum as well as average of array data passed as argument.
  - c. Finally the driver class must display it

```
package arraypassing;
public class MyMath {
                                             import java.util.Scanner;
  public double[] calculate(int [] brr){
                                             public class UseMyMath {
     int total=0;

✓ double [] result=new double[2];
                                                public static void main(String[] args) {
                                               / int []arr=new int[5];
    for(int x:brr)
                                                  Scanner kb=new Scanner(System.in);
       total+=x;
                                                  for(int i=0;i<arr.length;i++){</pre>
     result[0]=total;
                                                     System.out.println("Enter no:");
     result[1]=(float)total/brr.length
                                                     arr[i]=kb.nextInt();
     return result;
  }
                                                  MyMath_obj=new MyMath();
}
                                                  double[]ans; Lew ans
                                                  ans=obj.calculate(arr);
@
                                                  System.out.println("Sum is "+ans[0]);
                                                  System.out.println("Average is "+ans[1]);
                                                }
                                             }
                                             «/t
```