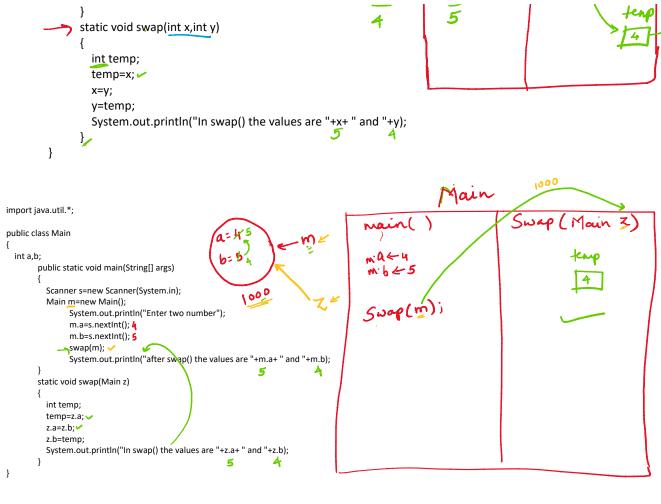
## Static methods and Array of Objects

```
20 October 2022 07:57 PM
```

```
Different class.
                         Same class
  import java.util.*;
                                                                          import java.util.*;
   public class Main
                                                                          public class Main
        public static void main(String[] args)
                                                                               public static void main(String[] args)
           Scanner s=new Scanner(System.in);
                                                                                 int n;
              System.out.println("Enter a number");
                                                                                 Scanner s=new Scanner(System.in);
              n=s.nextInt();
                                                                                     System.out.println("Enter a number");
              System.out.println("Factorial is "+Fact(n));
                                                                                     n=s.nextInt();
                                                                                     System.out.println("Factorial is
        static int Fact(int n)
                                                                                      "+DJ.Fact(n));
           if(n==1)
                                                                         }
           return 1;
                                                                         class DJ
           else
           return n*Fact(n-1);
                                                                               static int Fact(int n)
                                                                               {
  }
                                                                                 if(n==1)
                                                                                 return 1;
                                                                                 else
                                                                                 return n*Fact(n-1);
                                                                         }
Call by Value
                                                               Main
   public class Main
    int a,b:
        public static void main(String[] args)
           Scanner s=new Scanner(System.in);
           Main m=new Main();
              System.out.println("Enter two number");

• a=s.nextInt();

           m ⋅ b=s.nextInt();
              System.out.println("Factorial is "+DJ.Fact(n));
      import java.util.*;
      public class Main
       🦐 int a,b;
                                                                                                                 x, int
          public static void main(String[] args)
            {
              Scanner s=new Scanner(System.in);
              Main m=new Main();
                                                         1000
                                                                                                                     5
                  System.out.println("Enter two number");
                  m.a=s.nextInt(); -
                  m.b=s.nextInt(); <
                  swap(m.a,m.b),
                  System.out.println("after swap() the values are "+m.a+ " and "+m.b);
          static void swap(int x,int y)
```



```
S[] = new int[5];
                                          Student S[]= new Student[5];
class Student
  int total;
  void input ()
    { Sop(name, total);
                                                  import java.util.*;
                                                  public class Main
                                                        public static void main(String[] args)
                                                          Student s[]=new Student[3];
                                                         for(int i=1;i<3;i++)
                                                           s[i]=new Student();
                                                           s[i].input();
                                                         for(int i=1;i<3;i++)
                                                          s[i].display();
                                                         }
                                                        }
```

```
}
class Student
{
    String name;
    int total;
    Scanner s=new Scanner(System.in);
    void input()
    {
        System.out.println("Please enter name and total");
        name=s.nextLine();
        total=s.nextInt();
    }
    void display()
    {
        System.out.print("name and total is "+name+ " and "+total);
    }
}
```