

Swapping of 2 numbers without using 3<sup>rd</sup> variable ,Swapping of 2 numbers with 3<sup>rd</sup> variable ,Greater between 2 numbers, Greater between 5 numbers

```
import java.util.Scanner;

public class method_overlo {
    static int a,b,c,d,e;
    public static void main(String[] args) {
        Scanner sc=new Scanner(System.in);

        System.out.println("Enter Two no");
        a=sc.nextInt();
        b=sc.nextInt();
        swap(a,b);
        System.out.println("Enter three no");
        a=sc.nextInt();
        b=sc.nextInt();
        c=sc.nextInt();
        swap(a,b,c);

        System.out.println("Enter Two no");
        a=sc.nextInt();
        b=sc.nextInt();
        grt(a,b);
        System.out.println("Enter five no");
        a=sc.nextInt();
        b=sc.nextInt();
        c=sc.nextInt();
        d=sc.nextInt();
        e=sc.nextInt();
        grt(a,b,c,d,e);
    }
    public static void swap(int a,int b)
    {
        System.out.println("Before swapping");
        System.out.println("a:"+a);
        System.out.println("b:"+b);
        c=a;
        a=b;
        b=c;
        System.out.println("After Swapping");
        System.out.println("a:"+a);
        System.out.println("b:"+b);
    }
    public static void swap(int a,int b,int c)
    {
        System.out.println("Before swapping");
        System.out.println("a:"+a);
        System.out.println("b:"+b);
        System.out.println("c:"+c);
        d=a+b+c;
        a=d-(a+b);
        b=d-(a+b);
        c=d-(a+b);
    }
}
```

```

        System.out.println("After Swapping");
        System.out.println("a:"+a);
        System.out.println("b:"+b);
        System.out.println("c:"+c);
    }

    public static void grt(int a,int b)
    {
        if(a>b)
        {
            System.out.println(a+ " is greater number");
        }
        else {
            System.out.println(b+ " is greater number");
        }
    }

    public static void grt(int a,int b,int c,int d,int e)
    {
        if(a>b && a>c && a>d && a>e)
            System.out.println( a+ " is greater ");
        else
            if (b>c && b>d && b>e)
                System.out.println( b+ " is greater ");
            else
                if (c>d && c>e)
                    System.out.println( c+ " is greater ");
                else
                    if (d>e)
                        System.out.println( d+ " is greater ");
                    else
                        System.out.println( e+ " is greater ");
    }
}

```

Output:

```
<terminated> method_overlo [Java Application] C:\Program Files\Java\jre'  
Enter Two no  
12  
14  
Before swapping  
a:12  
b:14  
After Swapping  
a:14  
b:12  
Enter three no  
13  
45  
23  
Before swapping  
a:13  
b:45  
c:23  
After Swapping  
a:23  
b:13  
c:45  
Enter Two no  
32  
55  
55 is greater number  
Enter five no  
12  
56|  
34  
89  
23  
89 is greater
```