

Method Overloading-

1. Swapping 2 no without using 3rd variable 2. Swapping 2 no with 3rd variable

3. Greatest between 2 no 4. Greatest of 5 no

```
import java.util.Scanner;

public class Method_Overloading {

    public static void main(String[] args) {

        Scanner sc=new Scanner(System.in);
        System.out.println("Enter two no:");

        int a,b,t,x,y,z,n1,n2,n3,n4,n5;

        a=sc.nextInt();
        b=sc.nextInt();
        swap(a,b);

        System.out.println("\nEnter two no:");

        a=sc.nextInt();
        b=sc.nextInt();
        swap(a,b);

        System.out.println("\nEnter three no:");

        x=sc.nextInt();
        y=sc.nextInt();
        z=sc.nextInt();
        grt(x,y,z);

        System.out.println("\nEnter five no:");

        n1=sc.nextInt();
        n2=sc.nextInt();
        n3=sc.nextInt();
        n4=sc.nextInt();
        n5=sc.nextInt();
        grt(n1,n2,n3,n4,n5);
    }

    public static void swap(int a,int b)
    {
        System.out.println("Before swapping numbers: "+a+" "+b);
        a=a+b;
        b=a-b;
        a=a-b;
        System.out.println("After swapping numbers: "+a+" "+b);
    }

    public static void swap(int a,int b,int t)
```

```

    {
        System.out.println("Before swapping numbers: "+a+" "+b);
        t=a;
        a=b;
        b=t;
        System.out.println("After swapping numbers: "+a+" "+b);
    }
    public static void grt(int x,int y,int z)
    {
        if(x>y && x>z)
        {
            System.out.println(x + " is the greater number.");
        }
        else if(y>z && y>x)
        {
            System.out.println(y + " is the greater number.");
        }
        else if(z>x && z>y)
        {
            System.out.println(z + " is the greater number.");
        }
    }
}
    public static void grt(int n1,int n2,int n3,int n4,int n5)
    {
        if(n1>n2 && n1>n3 && n1>n4 && n1>n5)
        {
            System.out.println(n1+" is the greater number");
        }
        else if(n2>n3 && n2>n4 && n2>n5)
        {
            System.out.println(n2+" is the greater number");
        }
        else if(n3>n4 && n3>n5)
        {
            System.out.println(n3+" is the greater number");
        }
        else if(n4>n5)
        {
            System.out.println(n4+" is the greater number");
        }
        else
        {
            System.out.println(n5+" is the greater number");
        }
    }
}

```

OUTPUT-

Enter two no:

10

20

Before swapping numbers: 10 20

After swapping numbers: 20 10

Enter two no:

30

40

Before swapping numbers: 30 40

After swapping numbers: 40 30

Enter three no:

67

45

39

67 is the greater number.

Enter five no:

89

62

90

40

28

90 is the greater number