

Session-9 Class Methods

Sunday, July 10, 2022 12:38 PM

Today's Topics

- What are methods ✓
- How to create methods ✓
- How to call methods ✓
- Static Vs Non Static methods
- Parameter & Arguments
- What are method modifiers (public, private, protected & default)

✓ Method

Method is a collection of statements grouped together to perform certain task

✓ Creating Method

Syntax

modifier **returnType** **nameOfMethod** **Parameter List** {
method body }

information that is to be passed to the method. It has data type, order and number of parameters to the method

Example

```
public static int methodName(int a, int b) {  
    // body  
}
```

Modifier and parameter list are the optional.

Returntype --- **mandatory**

```
SwitchJava  New_037_Modi... New_039_cla... New_039_cla... New_40_Metho... X New_40_Metho... newfile.java New_40_Metho...
1 package java_hub;
2
3 public class New_40_Methods {
4
5
6     //Method
7     static void printMessage() {
8         System.out.println("welcome java");
9     }
10
11
12     static int sum(int a,int b) { //Accept only two values
13
14         System.out.println("sum of a+b is" + (a+b));
15         return (a+b);
16     }
17
18     static int min(int a, int b) {
19
20         if(a<b) // if a is smaller than b
21             return a;
22         else // if b is smaller than a
23             return b;
24     }
25
26
27     public static void main(String[] args) {
```

The screenshot shows an IDE with several tabs open. The active tab displays the following Java code:

```

21     return a;
22     else // if b is smaller than a
23         return b;
24 }
25
26
27 public static void main(String[] args) {
28
29
30     New_40_Methods calc = new New_40_Methods(); // to print the
31     calc.printMessage(); // non-static method
32
33     int result = sum(2,5); //Argument
34
35     System.out.println("sum of a&b is " + result);
36
37
38     System.out.println(min(5,8));
39
40     //Method to sum two number
41
42     // call method
43     //printMessage(); // it is static it is directly printing the output.
44
45 }
46
47 }
48

```

Below the code editor, there is a list of topics:

1. syntax of method


```

//modifier returntype nameofthemethod(Parameter list)
//{
    //method body
//}

```
2. How to create method
3. How to call method
4. static vs non static method
5. Parameter list
6. what is parameter and arguments. difference
7. returntype
8. public ,private and default modifier