

Java Method Overloading

Method Overloading

Sample Code

```
static int plusMethodInt(int x, int y) {  
    return x + y;  
}  
  
static double plusMethodDouble(double x, double y) {  
    return x + y;  
}  
  
public static void main(String[] args) {  
    int myNum1 = plusMethodInt(8, 5);  
    double myNum2 = plusMethodDouble(4.3, 6.26);  
    System.out.println("int: " + myNum1);  
    System.out.println("double: " + myNum2);  
}
```

Output

int: 13

double: 10.559999

Sample Code 1.1

```
static int plusMethod(int x, int y) {  
    return x + y;  
}
```

```
static double plusMethod(double x, double y) {  
    return x + y;  
}  
  
public static void main(String[] args) {  
    int myNum1 = plusMethod(8, 5);  
    double myNum2 = plusMethod(4.3, 6.26);  
    System.out.println("int: " + myNum1);  
    System.out.println("double: " + myNum2);  
}
```

Output

int: 13

double: 10.559999

Sample Code 1.2

Overloading by changing the number of parameters

```
class MethodOverloading {  
    private static void display(int a){  
        System.out.println("Arguments: " + a);  
    }  
  
    private static void display(int a, int b){  
        System.out.println("Arguments: " + a + " and " + b);  
    }  
  
    public static void main(String[] args) {  
        display(1);  
        display(1, 4);  
    }  
}
```

```
}
```

Output

```
Arguments: 1  
Arguments: 1 and 4
```

Sample Code 1.3

Method Overloading by changing the data type of parameters

```
class MethodOverloading {  
  
    // this method accepts int  
    private static void display(int a){  
        System.out.println("Got Integer data.");  
    }  
  
    // this method accepts String object  
    private static void display(String a){  
        System.out.println("Got String object.");  
    }  
  
    public static void main(String[] args) {  
        display(1);  
        display("Hello");  
    }  
}
```

Output

```
Got Integer data.  
Got String object.
```

References

- <https://www.javatpoint.com/method-overloading-in-java>
- <https://www.programiz.com/java-programming/method-overloading>
- https://www.w3schools.com/java/java_methods_overloading.asp