

# Method overloading and method overriding:

```
Main.java
13
14
15+ public void setAuthor(String author){
16     this.author = author;
17 }
18
19+ public void setPrice(int price){
20     this.price = price;
21 }
22
23+ public void printDetails(){
24     System.out.println("Book Details:");
25     System.out.println("Book Name: " + this.bookname);
26     System.out.println("Title: " + this.title);
27     System.out.println("Author: " + this.author);
28     System.out.println("Price: " + this.price);
29 }
30 }
31
32+ public class Main {
33+     public static void main(String[] args){
34         Book b1 = new Book();
35         b1.setBookname("Java");
36         b1.title="programming";
37         b1.setAuthor("Mam");
38         b1.setPrice(300);
39         b1.printDetails();
40     }
41 }
```

```
Output
java -cp /tmp/YJiIA1V8S0/Main
Book Details:
Book Name: Java
Title: programming
Author: Mam
Price: 300

=== Code Execution Successful ===
```

```
Main.java
2     String bookname;
3     String title;
4     String author;
5     int price;
6
7+ public void setBookname(String bookname){
8     this.bookname = bookname;
9 }
10
11+ public void setTitle(String title){
12     this.title = title;
13 }
14
15+ public void setAuthor(String author){
16     this.author = author;
17 }
18
19+ public void setPrice(int price){
20     this.price = price;
21 }
22
23+ public void printDetails(){
24     System.out.println("Book Details:");
25     System.out.println("Book Name: " + this.bookname);
26     System.out.println("Title: " + this.title);
27     System.out.println("Author: " + this.author);
28     System.out.println("Price: " + this.price);
29 }
30 }
31
32+ public class Main {
33+     public static void main(String[] args){
34         Book b1 = new Book();
35         b1.setBookname("Java");
36         b1.title="programming";
37         b1.setAuthor("Mam");
38         b1.setPrice(300);
```

```
Output
java -cp /tmp/YJiIA1V8S0/Main
Book Details:
Book Name: Java
Title: programming
Author: Mam
Price: 300

=== Code Execution Successful ===
```

Main.java	Run	Output
<pre>1- class methodoverloading{ 2-     public static void display(int a){ 3         System.out.println(a); 4     } 5-     public static void display(int a,int b){ 6         int c=a+b; 7         System.out.println(c); 8     } 9- public static void main(String[] args ){ 10     display(2); 11     display(2,3); 12 } 13 }</pre>		<pre>java -cp /tmp/t8H7Dm4mpy/methodoverloading 2 5  === Code Execution Successful ===</pre>

Main.java	Run	Output
<pre>1- class methodoverloading{ 2-     public static void display(int a){ 3         System.out.println(a); 4     } 5-     public static void display(double a,double b){ 6         int c=a+b; 7         System.out.println(c); 8     } 9-     public static void display(float a,double b){ 10        int c=a+b; 11        System.out.println(c); 12    } 13- public static void main(String[] args ){ 14     display(2); 15     display(2,3); 16     display(2.3,2.3); 17 } 18 } 19 }</pre>		<pre>java -cp /tmp/QSMw1GeAAs/methodoverloading 2 6.0 4.67  === Code Execution Successful ===</pre>

Main.java	Run	Output
<pre>1- class methodoverloading{ 2-     public static void display(int a){ 3         System.out.println(a); 4     } 5-     public static void display(double a,double b){ 6         double c=a+b; 7         System.out.println(c); 8     } 9-     public static void display(String a,String b){ 10        System.out.println(a+" "+b); 11    } 12 } 13- public static void main(String[] args ){ 14     display(2); 15     display(2.3,2.7); 16     display("kongara","sai"); 17 } 18 } 19 }</pre>		<pre>java -cp /tmp/fpczeLaRW6/methodoverloading 2 5.0 kongarasai  === Code Execution Successful ===</pre>

Main.java



Run

Output

```
1 public class OverloadingExample6 {
2     public void print(boolean a) {
3         System.out.println("Boolean parameter: " + a);
4     }
5     public void print(boolean[] flags) {
6         for (boolean flag : flags) {
7             System.out.print(flag + " ");
8         }
9         System.out.println();
10    }
11    public void print(int number) {
12        System.out.println("Int parameter: " + number);
13    }
14    public void print(String text) {
15        System.out.println("String parameter: " + text);
16    }
17    public void print(double number) {
18        System.out.println("Double parameter: " + number);
19    }
20
21    public static void main(String[] args) {
22        OverloadingExample6 obj = new OverloadingExample6();
23        obj.print(true);
24        obj.print(new boolean[]{true, false, true});
25        obj.print(42);
26        obj.print("Hello World");
27    }
28 }
```

java -cp /tmp/QPs9xHdz6n/OverloadingExample6

Boolean parameter: true  
true false true  
Int parameter: 42  
String parameter: Hello World  
Double parameter: 3.14

=== Code Execution Successful ===