

Home	All Tutorials	Core Java	OOPs	Collections	Java I/O	JSON	
DBMS							

# ding in Java with

vs a class to have more than one method having the ferent. It is similar to **constructor overloading** in in one constructor having different argument lists.

ment list it means the parameters that a method method add(int a, int b) having two parameters is thod add(int a, int b, int c) having three parameters.

## rload a method

ent lists of the methods must differ in either of

loading





about return type of the method, for example if two  
ters and have different return type, then this is not a  
will throw compilation error.

**tic Polymorphism.** We will discuss **polymorphism**

compile time binding or early binding.

Method overloading is an example of static  
s definition happens at Compile time.

## ng examples

le, method overloading is done by declaring same  
rameters must be different in either of these:  
(or arguments). Lets see examples of each of

eter list

x

## rent Number of parameters in

ding is done by having different number of

```
);
```

```
] )
```

```
playOverloading();
```

overloaded based on the number of parameters –  
but the parameters they have are different. Both  
s.

## rence in data type of parameters

x

```
[ ])
```

```
displayOverloading2();
```

## Difference of data type of arguments

on sequence of data type of parameters – Both the type in argument list. First method is having having (int, char). Since the sequence is different, y issues.

```
t definition of method disp");
```

```
nd definition of method disp" );
```

```
] )
```

```
splayOverloading3();
```

p

## ng and Type

oted to the data type of bigger size than this is called  
be can be promoted to short, a short data type can

g?

be promotion else you will think that the program  
it program will run fine because of type promotion.  
king here:

```
{
```

```
    ]){
```

*a second argument but  
double, because there  
list as (int, float)*

at value while calling the disp() method but it got  
n't any method with argument list as (int, float)

appen, lets see another example:

```
{
```

```
    ]){
```

*ppen as there is  
nt, float)*

didn't happen because there was a method with

noted to the any of the data type present in the right

## /invalid cases of ng

```
var3)
```

are exactly same. Both methods are having same  
of data types.

ading. Here data types of arguments are different.

ading. Here number of arguments are different.

ading. Sequence of the data types of parameters  
boat) and second is having (float, int).

are exactly same. Even though return type of  
e. Since return type of method doesn't matter while

he end of programs:  
**nd argument list same.**

m2)

od of class Demo");

r2)

hod of class Demo");



in one method with same name and argument list

**Method name & argument list same.**

```
num2)
```

```
of class Demo");
```

```
r2)
```

```
of class Demo");
```

```
] )
```

in one method with same name and argument list

Next >



Thanks a lot

Understand

Thank you

x

The examples were clear, and to the point. Great

lot.

---

---

---

rticle is correct. Don't understand why Shipra

---

tion error because you might be passing integer  
ds...if you specifically pass float then this will not

---

---

and useful explanation of method overloading

er i like that your presentation way.....Please  
inks

and useful explanation

useful explanation

g..Please explain clearly..

2)

or overloading. Sequence of the data types are  
nt, float) and second is having (float, int).

ase:4

converted into float.

sed state to which method it should bind to

clear wheather java supports pass by reference.I

lated in the calling function. can you explain how

wer

le things easy...Thanks a Ton

OPs and now I can say this is the best. Thank  
erful tutorial.



: so clearly. Overloading is something I

! this,  
started my course,

! of explaining! Good job!!

will throw an error like error: reference to print is

at's why reference variable is getting confused

ading! Kudos!

to understand. thank you

ading3.java

ding3

class TestOverloading3

showing error like this while run.

this error

x

are very clearly understood and got registered in

are :

1, int num2)

method of class Demo");

int var2)

method of class Demo");

---

---

nderstand :)

---

clear and easy to follow.please keep up doing  
re so much


---

o !!!");

---

ed. Required fields are marked \*

Java Tutorial

 [Java Index](#)

- First Java Program
- Variables
- Data Types
- Operators

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## Java Control Statements

- Java If-else
- Java Switch-Case
- Java For loop
- Java while loop
- Java do-while loop
- Continue statement
- break statement

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## OOPs Concepts

- OOPs Concepts
- Constructor
- Static keyword
- Inheritance
- Types of inheritance
- Aggregation
- Association
- Super Keyword
- Method overloading
- Method overriding
- Overloading vs Overriding
- Polymorphism
- Types of

➔ Abstract class and methods

➔ Interface

➔ Abstract class vs interface

➔ Encapsulation

➔ Packages

➔ Access modifiers

➔ Garbage Collection

➔ Inner classes

➔ Static import

➔ Static constructor

➔ Java Interview Q

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### MORE ...

➔ Java 8 Features

➔ Java 9 Features

➔ Java Conversion

➔ Java String

➔ Exception handling

➔ Java Multithreading

➔ Java I/O

➔ Java Serialization

➔ Java Regex

➔ Java AWT

➔ Java Swing

➔ Java Enum

➔ Java Annotations

➔ Java main method

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Canva

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