



Master Core Java in 30 days

Day-8 Constructors in Java



Rules for Constructors
Types of constructors
Copy Constructor
Constructor Overloading
Constructor Chaining

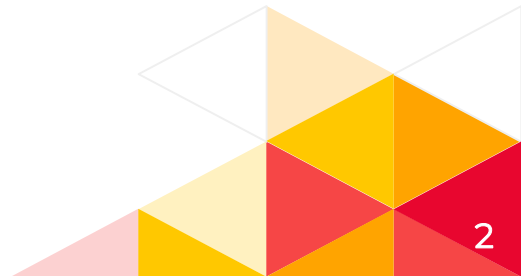
Core Java


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Definition of Constructor
Rules for Constructors
Types of constructors
Copy Constructor
Constructor Overloading
Constructor Chaining



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- A constructor in Java is a **special method** that is used to initialize objects.
 - The constructor is called when an object of a class is created.
 - It can be used to set initial values for object attributes



Rules for creating Java constructor


- Constructor name must be the same as its class name
- A Constructor must have no explicit return type
- A Java constructor cannot be abstract, static, final, and synchronized



Types of Java constructors

There are two types of constructors in Java

1. Default constructor (no-arg constructor)
2. Parameterized constructor



A constructor that has no parameter is known as the default constructor.
If we don't define a constructor in a class, then the compiler creates a **default constructor**(with no arguments) for the class.

```
Constructor() //Class name  
{  
  Body of constructor;  
}
```



Parameterized Constructor

- A constructor that has parameters is known as a parameterized constructor
- If we want to initialize fields of the class with our own values, then use a parameterized constructor.

```
Constructor(parameters list)
{
    body of constructor;
}
```



Copy Constructor

- In Java, a copy constructor is a special type of constructor that creates an object using another object of the same Java class.
- It returns a duplicate copy of an existing object of the class.



Constructor overloading

- Constructor overloading in Java is a technique of having more than one constructor with different parameter lists.
- They are arranged in a way that each constructor performs a different task. They are differentiated by the compiler by the number of parameters in the list and their types.

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