Constructor in java

In [Java](https://www.javatpoint.com/java-tutorial), a constructor is a block of codes similar to the method. It is called when an instance of the [class](https://www.javatpoint.com/object-and-class-in-java) is created. At the time of calling constructor, memory for the object is allocated in the memory.

It is a special type of method which is used to initialize the object.

Types of Java constructors

There are two types of constructors in Java:

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

## Java Default Constructor

A constructor is called "Default Constructor" when it doesn't have any parameter.

### Syntax of default constructor:

1. <class\_name>(){}

## Example of default constructor

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| --- |
| In this example, we are creating the no-arg constructor in the Bike class. It will be invoked at the time of object creation. |

1. //Java Program to create and call a default constructor
2. **class** Bike1{
3. //creating a default constructor
4. Bike1(){System.out.println("Bike is created");}
5. //main method
6. **public** **static** **void** main(String args[]){
7. //calling a default constructor
8. Bike1 b=**new** Bike1();
9. }
10. }
11. Output:

Bike is created

### Java Parameterized Constructor

A constructor which has a specific number of parameters is called a parameterized constructor.

### Why use the parameterized constructor?

The parameterized constructor is used to provide different values to distinct objects. However, you can provide the same values also.

### Example of parameterized constructor

In this example, we have created the constructor of Student class that have two parameters. We can have any number of parameters in the constructor.

1. //Java Program to demonstrate the use of the parameterized constructor.
2. **class** Student4{
3. **int** id;
4. String name;
5. //creating a parameterized constructor
6. Student4(**int** i,String n){
7. id = i;
8. name = n;
9. }
10. //method to display the values
11. **void** display(){System.out.println(id+" "+name);}
13. **public** **static** **void** main(String args[]){
14. //creating objects and passing values
15. Student4 s1 = **new** Student4(111,"Karan");
16. Student4 s2 = **new** Student4(222,"Aryan");
17. //calling method to display the values of object
18. s1.display();
19. s2.display();
20. }
21. }

Output:

111 Karan

222 Aryan

Services