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| **Constructor in Java**  **Constructor in java** is a *special method* which is used to initialize the object.  Java constructor is *invoked at the time of object creation*.   1. Constructor name must be same as its class name 2. Constructor must have no explicit return type   **Types of java constructors**  There are two types of constructors:   1. Default constructor (no-arg constructor) 2. Parameterized constructor   **Java Default Constructor**   |  | | --- | | A constructor that have no parameter is known as default constructor. |   **Syntax of default constructor:**  **Rule: If there is no constructor in a class, compiler automatically creates a default constructor.**  **Q) What is the purpose of default constructor?**  Default constructor provides the default values to the object like 0, null etc. depending on the type.  **Java parameterized constructor**   |  | | --- | | A constructor that have parameters is known as parameterized constructor. |   **Why use parameterized constructor?**   |  | | --- | | Parameterized constructor is used to provide different values to the distinct objects. |   **Constructor Overloading in Java**   |  | | --- | | Constructor overloading is a technique in Java in which a class can have any number of constructors that differ in parameter lists.The compiler differentiates these constructors by taking into account the number of parameters in the list and their type. |   **Difference between constructor and method in java**  There are many differences between constructors and methods. They are given below.   |  |  | | --- | --- | | **Java Constructor** | **Java Method** | | Constructor is used to initialize the state of an object. | Method is used to expose behaviour of an object. | | Constructor must not have return type. | Method must have return type. | | Constructor is invoked implicitly. | Method is invoked explicitly. | | The java compiler provides a default constructor if you don't have any constructor. | Method is not provided by compiler in any case. | | Constructor name must be same as the class name. | Method name may or may not be same as class name. | |

**Q) Does constructor return any value?**

**Ans:**yes, that is current class instance (You cannot use return type yet it returns a value).

**Can constructor perform other tasks instead of initialization?**

Yes, like object creation, starting a thread, calling method etc. You can perform any operation in the constructor as you perform in the method.