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Constructors

Constructors in Java, are special methods that are used to initialize objects of a class.

- · They have the same name as the class and do not have yetwin Type.
- · Constructors are called when an object is created using the Inew' Keyword.

Important points

-Default

- * If we dont define any constructor in the class, Java automatically provides a default constructor.
 - Default constructor has no parameters and perform no explicit initialization.
- * Overloading Constructors: Same as Other methods in Java, constructors can be overloaded.
 - to means we can have muetiple constructors in a class with different parameter lists.
- This type of constructor allow us to cheate objects with different initialization options.
- Fach constructor can perform specific initialization tasks based on the provided arguments.

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chaining constructors: In Java, constructors can call other
and alors of the state of the s
constructors within the same class using the "this!"
keyword, known as constructor chaining.
It allows us to reuse the code and provide different levels of
initialization.
for ex. One constructor can call other constructor with
default values, reducing code duplication.
* Implicit super constructor: If a class extends another class,
the subclass's constructor implicity calls the
Super classis constructor using the "super ()" keyword.
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If the Superclass has multiple constructors, the subclass
constructor must explicity call one of them using "super()"
as the first statement in the subclass constructor.
The second of th
* Access Modifiers and Constructors: Constructors on have access
modifieus like 'public', 'private', or 'protected'.
FOYEK.
- Constructors can be accessed from anywhere through 'public'
- " can be accessed within same class through 'private!
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The choice of access modifier affects the visibility of the

constructor.

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* No Retwin Type: Constructors do not have a retwin type, not even "void".

their purpose is solely to initialize the object, so they don't return any value.

* Initializing Blocks: Addition to constructors, Java provides initialization blocks, including static and instance initialization blocks.

These blocks allows you to write code that runs during object cheation or class loading.

- Initialization blocks are useful for performing additional initialization tasks or executing code that can not be placed directly in a constructor.

- Understanding Constructors is fundamental to working with Java Objects.

They provide a way to ensure proper initialization and state setup when creating new instances of class.

- By defining and utilizing constructors effectively, you can control the initial state of objects, set values, nandle parameters and perform any necessary setup operations.