Constructor

Day 20 Assignment

1. What is a Constructor?
2. What is Constructor Chaining?
3. Can we call a subclass constructor from a superclass constructor?
4. What happens if you keep a return type for a constructor?
5. What is No-arg constructor?
6. How is a No-argument constructor different from the default Constructor?
7. When do we need Constructor Overloading?
8. What is Default constructor Explain with an Example

1. What is a Constructor ?

Ans: 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.

2. What is Constructor Chaining ?

Ans: Constructor chaining is the process of calling a sequence of constructors. We can do it in two ways: by using this() keyword for chaining constructors in the same class. by using super() keyword for chaining constructors from the parent class.

3. Can we call a subclass constructor from a superclass constructor ?

Ans: Yes, A subclass can call a constructor defined by its superclass by use of the following form of super: super(parameter-list).

4. What happens if you keep a return type for a constructor ?

Ans: Usually, constructors do not have a return statement. Their task is to write all necessary stuff into this , and it automatically becomes the result. But if there is a return statement, then the rule is simple: **If return is called with an object, then the object is returned instead of this .**

5. What is No-arg constructor ?

Ans: No-Arg Constructor is a constructor that does not accept any arguments.

6. How is a No-argument constructor different from the default Constructor ?

Ans: One difference between them is that the body of the default constructor will always be empty whereas we can insert our own code in the no-arg constructor.

7. When do we need Constructor Overloading ?

Ans: As construction overloading **enables the creation of the object of a specific class** in several ways, it is most commonly used in Java programs based on the requirement of the programmer. With the use of constructor overloading, objects can be initialized with different data types.

8. What is Default constructor Explain with an Example

Ans: A default constructor is **a constructor created by the compiler if we do not define any constructor(s) for a class**.

Eg-

```
public class Student {
  String firstName;
  String lastName;
  int age;

  public static void main(String args[]) {
     Student myStudent = new Student();

     myStudent.firstName = "Ihechikara";
     myStudent.lastName = "Abba";
     myStudent.age = 100;

     System.out.println(myStudent.age);
     //100

     System.out.println(myStudent.firstName);
     //Ihechikara
  }
}
```