JAVA Interview Q&A:

**What is a Class in Java?**

A class can be defined as a collection of objects. A Class has variables and methods.

**What is an Object in Java?**

An object is an instance of a class. The object has state and behaviour.

**What is a Constructor ?**

Constructor is a block of code. It is executed when ever create an object for a class.

Name of constructor should be the class name.

It will not rerun values.

**Types of Constructor:**

**Default Constructor:** A Constructor that has no parameter is known as Default constructor. The complier creates a default constructor when ever create an object for the class.

**Parameterized Constructor:** A Constructor that has parameter is known as Default constructor. Value should be pass when create an object for class.

**What is Local Variable and Instance Variable?**

Local Variable:

Local variable is a variable which we declare inside a Method. A method will often store its temporary state in local variables.

Instance Variable (Non-static):

Instance variable is a variable which is declared inside a Class but outside a Method. We don’t declare this variable as Static because these variables are non-static variables.

**What is Inheritance?**

Drive the properties and methods from one class to another class are known as inheritance.

Use ‘Extends’ keyword to inherit parent class to child class.

**Types of Inheritance:**

1. Single Inheritance

2. Multilevel Inheritance

3. Hierarchical Inheritance

4. Hybrid Inheritance

**What is Polymorphism?**

Polymorphism allows us to perform a task in multiple ways. There are two types of Polymorphism in Java

1. Compile time polymorphism (Static binding) – Method overloading

2. Runtime polymorphism (Dynamic binding) – Method overriding

We can perform polymorphism by ‘Method Overloading’ and ‘Method Overriding’

**What is Method Overloading?**

A class having multiple methods with same name but different parameters is called Method Overloading

There are three ways to overload a method.

Parameters with different data types

Parameters with different sequence of a data types

Different number of parameters

**What is Method Overriding?**

Declaring a method in child class which is already present in the parent class is called Method Overriding.

In simple words, overriding means to override the functionality of an existing method.

**What is Abstraction in Java?**

Abstraction is the methodology of hiding the implementation of internal details and showing the functionality to the users.

**What is Abstract Class in Java?**

**What is Abstract Method?**

An abstract method is a method that is declared without an implementation.

**What is Interface in Java?**

**What is Encapsulation in Java?**

Encapsulation is a mechanism of binding code and data together in a single unit.