# Assignment-3

1. What is inheritance?

Inheritance is the process of creating the new classes from the existing classes by this we can reuse the code and the sub class is inherit the from the super class. There are five types of inheritance they are single inheritance, multiple inheritance, multilevel inheritance, hierarchal inheritance, hybrid inheritance.

1. What is multiple inheritance?

Object Oriented Programming provides a user the feature of multiple inheritance, wherein a class can inherit the properties of more than a single parent class. In simpler terms, multiple inheritance means a class extending more than one class.

1. What is the use of Super keyword?

The super keyword in Java is a reference to the object of the parent/superclass. Using it, you can refer/call a field, a method or, a constructor of the immediate superclass.

1. What is abstract method in java?

A method without body (no implementation) is known as abstract method. A method must always be declared in an abstract class, or in other words you can say that if a class has an abstract method, it should be declared abstract as well.

1. What is abstract class?

A class that is declared using abstract keyword is known as abstract class. It can have abstract methods, as well as concrete methods.

1. What is the use of final modifier in java?

The final is a modifier in Java, which can be applied to a variable, a method or a class. When a final modifier is used with a class then the class cannot be extended further. This is one way to protect your class from being sub classed and often sensitive classes are made final due to security reason. This is also one of the reasons why String and wrapper classes are final in Java.

1. What is interface? Write the syntax of the interface?

Interface: An interface is an abstract class that is used to group related methods with empty bodies.

Syntax:

Interface salary

{

Public void employee ();

Public void Non\_teaching\_employee();

}

1. What is package?

A Java package organizes Java classes into namespaces, providing a unique namespace for each type it contains. Classes in the same package can access each other's package-private and protected members.

1. What is an exception?

Exception are events that occur during the execution of programs that disrupt the normal flow of instructions.

1. What is the use of finally block?

Java finally block is always executed whether exception is handled or not. It identifies a block of statements that needs to be executed regardless of whether or not an exception occurs within the try block.