

Ans-1 Deriving the feature of existing class into new class is called inheritance

is a feature of oop which provide a feature of reusability.

Existing class known as Base, Super & Parent class
New class known as Sub, Derive & child class

Ans-2 Super class means more class which is inherited by sub class
sub class means inherited the feature of super class

Ans-3 By using extend and implements keywords
Extend:- when a base class inherits the feature of sub class then sub class use extend keyword to ~~ext~~ inherit the feature
implements:- It is used to implement the base interface ~~class~~ feature using ~~the class~~ implements keyword

Ans-4 Polymorphism means:-

Polym means, morphism form
if one thing exist in more than one form it is called Polymorphism.
means same object having a different behaviour

Ans-5 overriding:- when a class contains more than one method with same name & different type of parameters it is called overriding

2-1 overloading when a base class and
derived class having
same method name and same
parameters it is called overloading

2-2 abstraction is when a class contains
more than one abstract method
it is called abstract class

2-3 abstraction means class having more than one abstract
method. final is a keyword and
we use final we can't access the variable.

2-4 final is a keyword which provides
~~restriction~~ restriction. In general
we can use final in 3 ways
once we use final as variable we
can't reuse it.

once we use final as method we
can't override it

once we use final as class we
can't extend it

2-5 Abstraction*, it means more than one
abstract method in a class is
called abstract class. If there is an
abstract method in a class then we need
to make abstract that class.

Encapsulation Binding the data members
and methods function
into a single unit then
it is called Encapsulation

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Compile time Polymorphism

A polymorphism which exists at the time compilation is called compile time. In compile time polymorphism we have method overloading.

Run time Polymorphism

A polymorphism which exists at the time of ~~the~~ execution of polymorphism is called Runtime Polymorphism.