Oops Assignment

1. What is inheritance in java?

Ans: Prcosses by which one class acquiring properties and behaviour of another class.

1. What is superclass and subclass?

Ans: The class from where we acquire property and behaviour is known as Super class while the class acquire these stuffs is known as Subclass.

1. How is inheritance implemented/achieved in java?

Ans:

1. What is polymorphism?

Ans: If one thing exists inmore than one form then it is called Polymorphism also it is a greek word where Poly means “Many” and Morphism means structure or forms.

1. Difference between method overloading and overriding?

Ans: Method Overloading :

* Implements “compile time polymorphism”.
* Method call is determine at compile time.
* Occurs between the methods in the same class.
* Having the same name , but the parameters are different.

Method Overriding :

* Implements “runtime time polymorphism”.
* Method call is determine at runtime.
* Occurs between superclass and subclass.
* Having the same signature.

1. What is abstraction explained with an example?

Ans: It is keyword which can be applied on class and method in java. While using it the message will not be shown to the user during overriding as we remove them by using “abstract”keyword.

1. Difference between abstraction method and final method in java?

Ans: The abstract method is incomplete while the final method is regarded as complete . the only way to use an abstract method is by overriding it,

But you cannot override a final method in java.

1. Difference between abstraction method and encapsulation?

Ans: Abstraction :

* It is a feature of OOPs that hides the unnecessary detail but shows the essential information.
* It solves an issue at the design level.

Encapsulation :

* It is also the feature of oops .
* It hides the code and data into singlr entity or unit so that the data can be protected from the outside world.

1. Differnce between runtime and compile time polymorphism ?

Ans: Runtime P olymorphism :

* The call is not resolved by the compiler.
* Inheritance is involved.
* It is also known as Dynamic binding , late binding and overriding as well.

Compiletime Polymorphism :

* The call is resolve by the compiler.
* Inheritance is not involved.
* It is known as static binding , early binding and overloading as well.