

Q) Explanation of Oops concept in java

What is oops ?

Oops stands for Object oriented programming system

Abstraction, encapsulation, inheritance, and polymorphism are four of the main principles of object-oriented programming.

1) Abstraction is used for data hiding ;

2) Encapsulation is used for binding up of data;

3) Inheritance is used to Extends or inherited the parent class to child class;

4) Polymorphism is used to method overloading and Method overriding

These all 4 principles of oops provide so many feature like

Abstraction is used for privacy of data it 's mainly used in ATM machine

Banking system and for 100% abstraction we used interface

Encapsulation is a process of Wrapping similar code in one place

Which makes our code cleaner and easy to read;

Polymorphism means many forms and it occur when we have many classes that are related to each other by inheritance human behaviour are best example one person have different behaviour but all are human being;

Polymorphism is mainly two types;

1) compile time polymorphism;

2) Runtime polymorphism;

Inheritance is one of the most important concept of oops by inherited the feature of other class we can reuse the data member of that class that the code reusability and reusability enhance reliability

There are mainly 5 types of inheritance ;

- 1) Single inheritance
- 2) Multiple inheritance
- 3) Multiple inheritance
- 4) Hierarchical inheritance
- 5) Hybrid inheritance