Revision of Class IX Syllabus

Unit I: Introduction to oop (Object Oriented

Programming) Concepts

Programming Language

High level programming language

(Understood by humans and one closer to natural language than machine language

Low level brodramming. language.

(closer to tome machine language and are designed to interact with hordware at low rend)

High level language is further classified into

I) Procedure Oriented Programming language

A programming language in which emphasis is given on the functions or procedures rother than data values is known Procedure Oriented Programming language. It mainly uses variables, statements, functions and conditional operators. Eg: - C, BASIC.

Object Oriented Language Here we put emphasis on data values nother on functions. It allows the user to split the program into number of segments called Objects'. Eg: e++, Java,

Principles of Object Oriented Programming (OOP)

1) Data Abstraction

The method or process of showing the essential information about the data hiding the background details or the implementation of code to reduce complexity is called Abstraction.

(11) Encapsulation

In an OOP, the data & functions are grouped or merged together in such a way that the data items one only accessible within the functions of the Same object. It provides an intenface between data items of objects and calling the program.

III) Inheritance.

The mechanism in which one class acquires the features of another class is ealled inheritance. The class that is in herited is called superclass, or Base class. One that inherits from a bone class is called as Subclass, Derived Class or Target.

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Polymorphism allows for the use of a single interface to represent multiple types of objects, making code more flexible and easier to maintain.