OOPS (Object Osiented Perogreamming System) ett consists of all the programming concept that is real bfo everer as Object air Poly morphism a) Function b) Function o) Operatore
Overloading Oversiding Overloading (Java down)
Support it)

N) Destructore vii) Scope Resolution viii) Intine
function. y Constructor X) Applet xix Superclass xuy Access. Specifien. b) Default c) Protected
(c++ doesn+ W Interface a) Private (C++ doesn't Supposet) It is a user-defined datatype, which consists of function & variable. Class concept is used to conganize the programming.

C program is unstructured and insecure programming.

To secure the program in a structured way C++ concept has been introduced. Harriable within a slow on brown in a structure of the program within a slow on brown. Variable & function within a class is known as member variable & member function grespectively. That means variable & function together forms data member of a class. class classame Syntan: public variablelist; public functionlist; int main () dass obj;

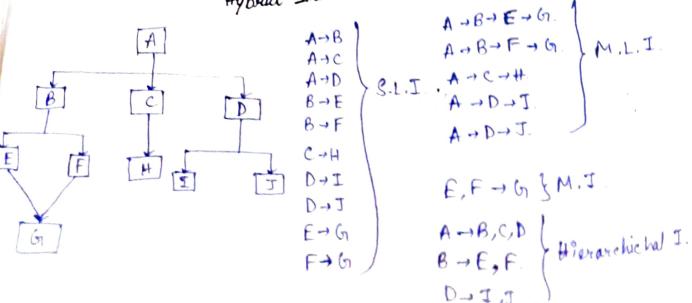
Object: It is a nuntime instance of a class, which is used to hold the data member of a clan the he variable & function. Through the object creation of the class we can call the function & variable of a class. Syntax: A ob; . ins folymosphism: Poly = "many" & 1 mosphism = "forms". Function having same name with different forms as known as polymorphism. Polymorphism are of 3-types ->. Hunction Overloading. In case of function overloading only one class is occapiesed and within the class minimum 2 function must be present. Here function name, sectuen type and access specified must be same and parameter or arguement passing may on may not be same. To If the no. of parameter is some then datatype

must be different and if the no. of parameter is different then datatype can be same.

Syntax: (Type 1). Same datatype, different no. of parameter

1 public void calc (Int x) public void calc (int x, int y) Same no. of parameter, Different Datatype. Syntan: (Type 2). public void calc (Pnt 2). public void calc (double x) Overniding: In case of function overvieding minimum two class ou suggisted and within both the class menimum one function must be priesent. All the function name, seetween type, access specifier and parameter passing chald class will priionotise its own function reather must be same. Child than pavient class function i.e. child class functions output will be displayed and parent class function's output well be hidden. Syntax: class A child class. public void cale (inty)

iv> Inhautance: It is one of Honost imposetant concept in cya minimum two classes are required. Is Parent of Base class ose Super class and another is in the class ou see Derewed class on Sub Class. The class who inhereits the features of another class who inhereits the class which is inhereited by known as child class and the class. another class is known as favent Class. 14 Hierarchical Inheritance Types: > Hybrid Inheritance y Single level Inheritance is Multi-level Inheoritance in Mutiple Inhevitance. Multi Level Inheritance. Parent B child. Single Level Inherestance. Hierarchichal Inheritance. Multiple Inhordtance. Hybrid Inheritance. A -B- E-6. A-B



of a class i.e. variable & function within the scope of the class. If we declare a vouliable and function as pourate then and function be accessible outside the scope of the class. in true : pouvate int x; े class - म नार्युत accessible मम Default: Default variable can be accessible within the same directory either through Inharitance on object creation, but it can't be accessible outside the scope of the directory. असर -folden - के आही अठिरामार्ट त्वात्रक्तार argue ar won default variable access Folder कार्य भारत किंगू हमातामा प्रमाविष्ट किर्विकर 4 4 B. Clars. and acceptable as e) Protected: If we declare a variable as protected then it can be accessible within the same folder as well as different folder if inheritance is there, but it can't be accessible through object creation. Syntan: Folder

d) Public: It is accessible anywhouse within the program within the folder of well as outside the floor folder. B. Clax