DOPS

DENCAPSULATION:

Wroppies of data + methods. All the data con be accessed truoyen member functions.

Difference b/w Data abstraction + encopsulation:

Encopsulation is a wethod to lude the data in a single

ontity or unit along with a method to protect into

from outside.

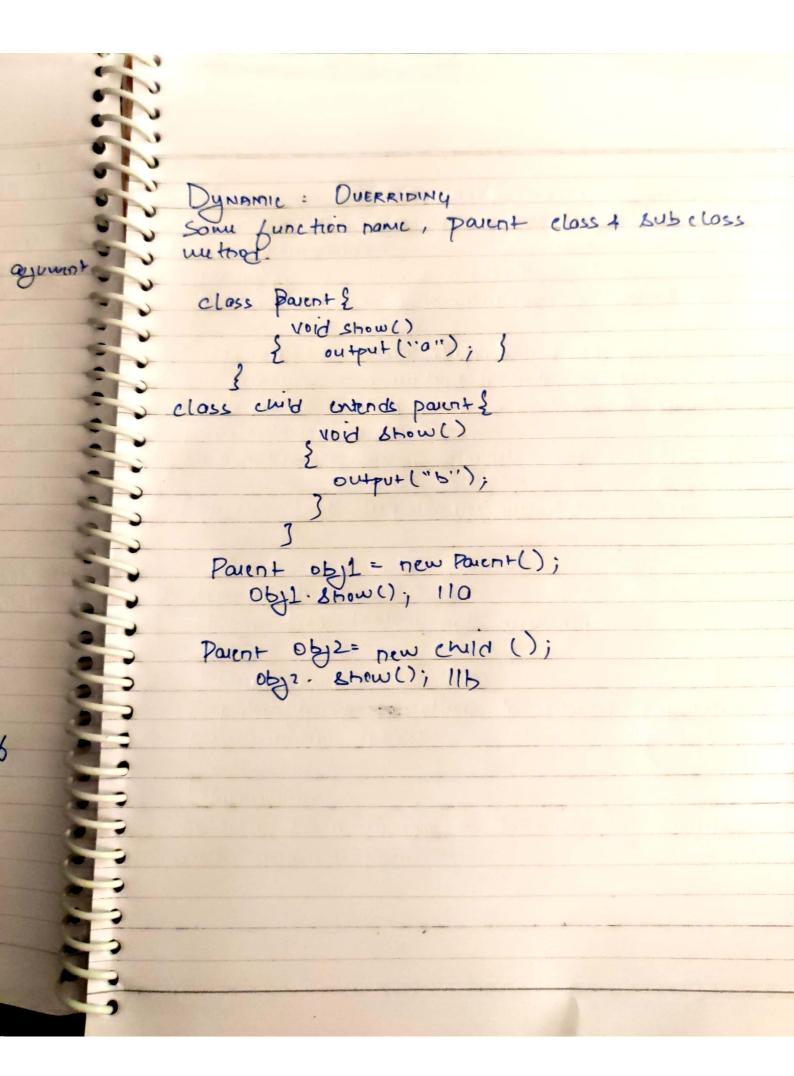
Abstraction is hiding unwanted into.

Objects that help to perform abstraction are encopsulate

- Hiding data that is not necessary
- Capobility of our closs to interit capabilities from another closs.
- Abouty for a missage or data to be provised in more from our form.

STATIC VS DYNAMIC POLYMORPHISM Defferentiation defferent fore on the basis of agreement list in the same does. public eloss sum {

public int sum (int ni, int y)
} return (n+y); public int sum (int n, int y, int z) netwo (n+y+z); Public double sum (double m, double y) return (n+y); We connot overload a by Just on the basis of return type



```
intuspou Todo & titu: shing; description?: shing;
  const todol = {
const update Todo = & (
  +odo: Todo;
  bields To Update: Partial (Todo)
)=)({ 2... todo, ... buids To Update)};
const result1 = update To do (todo1, {
    description: "throw out trash";
 const +oolo2 = {
             description: "cuan up",
const update Rywied Todo - & (
              todo: Revued (Todo),
            bieldsTo Upate: Partiai C Todo > ({ ... todo, ... bield Toupdate }): Repuised C Todo ) = ) ({ ... todo, ... bield Toupdate })
```

interfore GenericAN(Add Type) => Add Type; closs Generic Number implements Generald (number) }
add (n: number, y: number) {

Actum n+4; class generic String implements Generic Aide (string) & and (n: string), y: string) { Metun xtd generalienten. odd(1.2);

LITTLE HOUT INTERFACES. Dupose of intifous is to allow the computer to conforce these properties and to know that an object of TYPET (whotever interface it is) must have fur 1 12, 12 etc. For en. we have a closses: car, scooter & huck I each has a bu start-enjmed), how truly are implemented are left to each particular closs but the bact that they must have a start-engine of is domain of the interpal. 0 NO VARIABLE allowed An interfour is about actions that are allowed not about dato / implementations All members are public in interface LOLYMORPHISM: Polymorphism is emplemented by interface var vehicle : yehrch = new car(); vai vewlez: vewle = new huck (). Intufau: Data abstraction + polymorphism