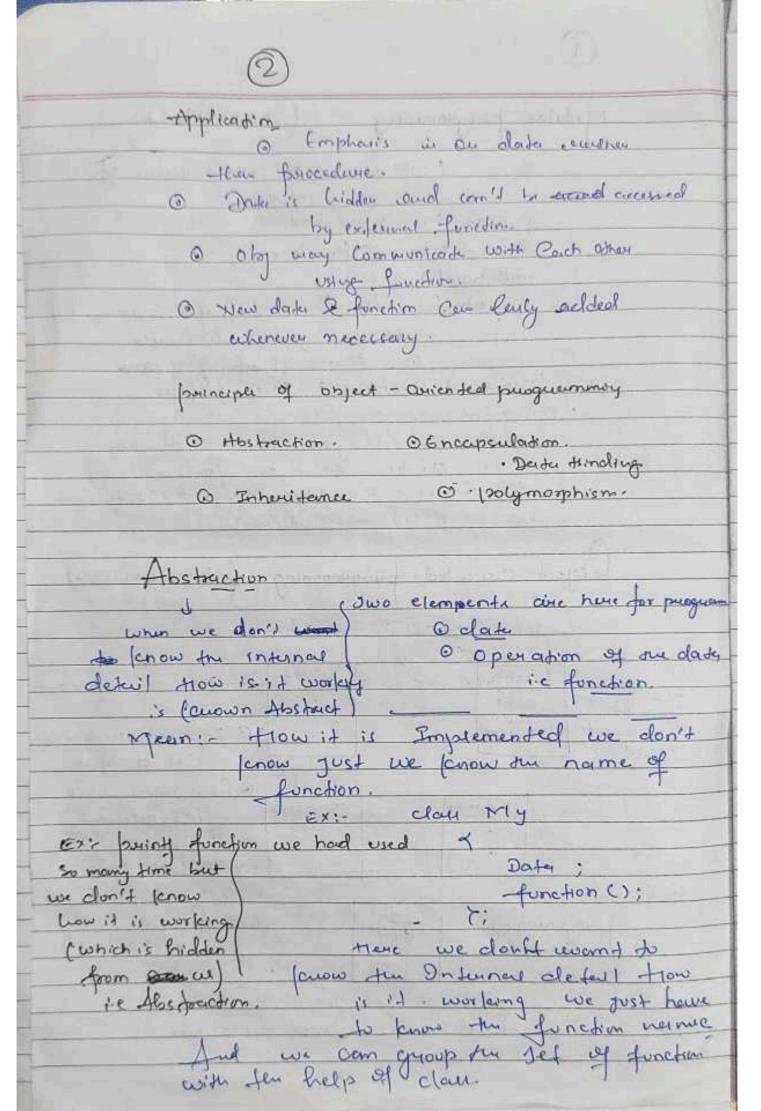
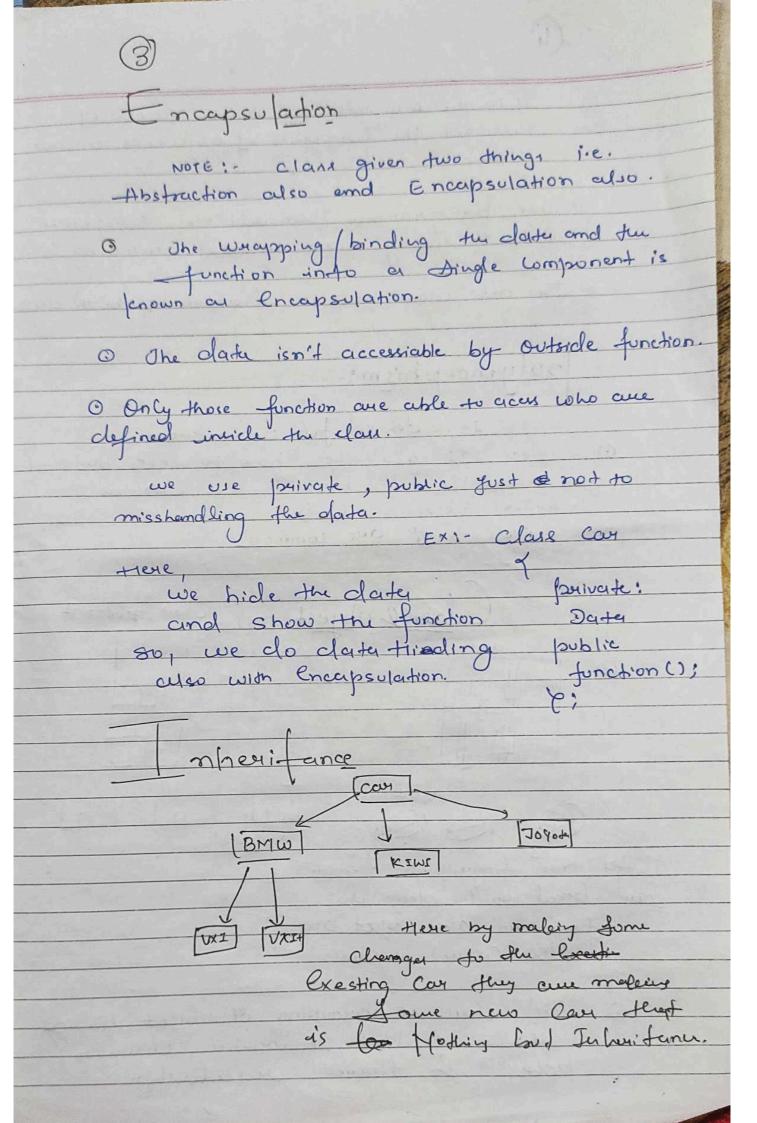
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one class get the properties of object of emorner

O the programmer can add new properties to the existing class without changing it.

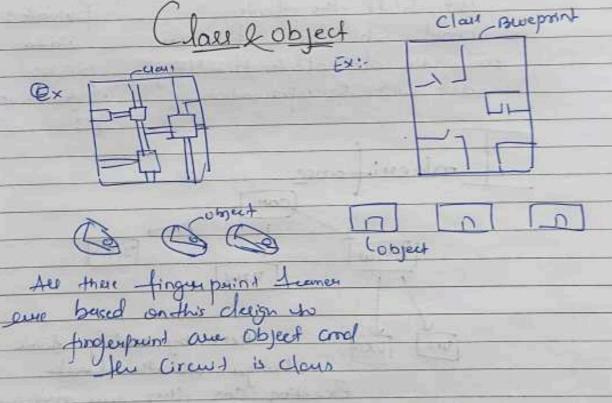
O Oh new class joussess features of both class.

solymorphism:

It is derived from twheriture -
O Ex: If you know how to use a beforesess
do you need to learn how to use chrome;

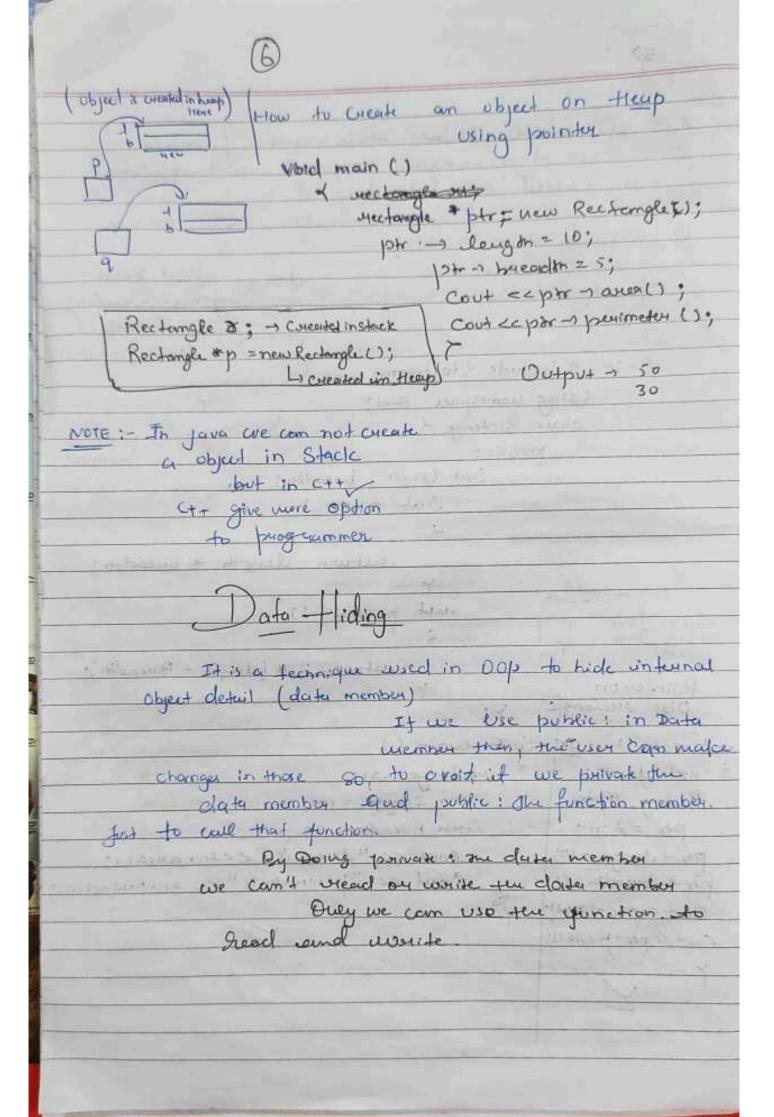
Inturnent Explorer, (up)

Here thing's are common.

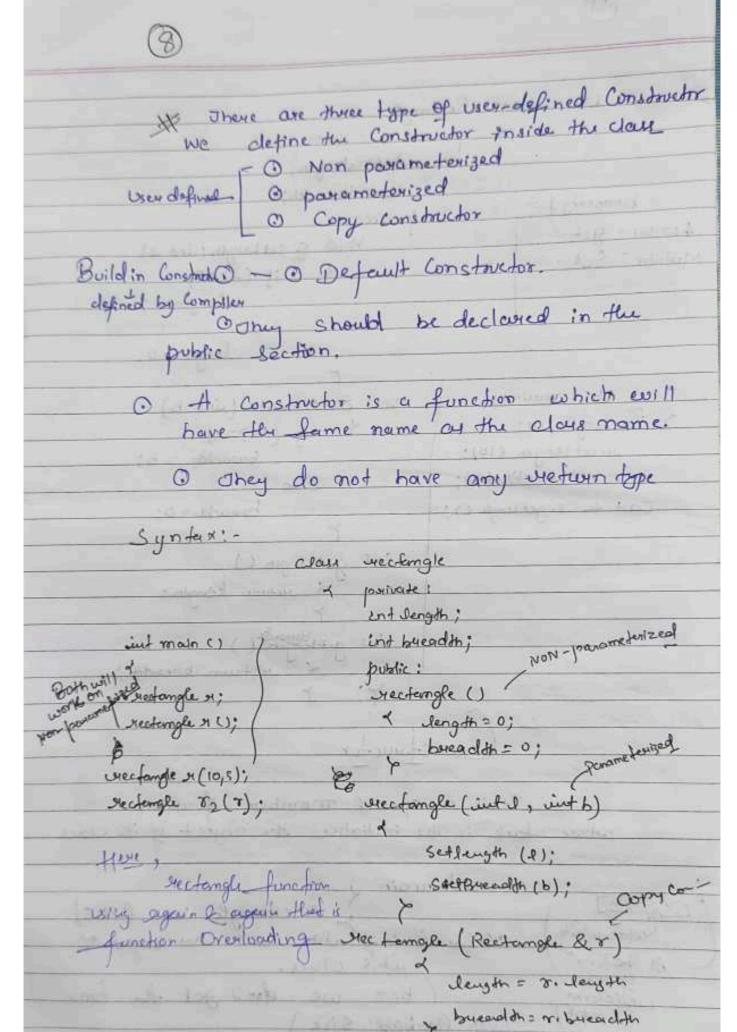


of class is grouping of object having identice identical fraperties, Common behaviour & Phancel relationship.

\* O Class will Contain data and function so date is called property end is called as behavious! @ Object are nothing type class. float purimete (); Ex: # Include Yiostreams Using hamespace stel; clair Rectange & Lobject. public: int leigth, bueaudth; int area () length \* bueadth; 130 th one Oreales Pointey on Obj rectongle int main () int movin () 1 sectionate UII; Rectorge #ptr; MI. buegalth 2 50 Cout << " Auea is " < < en. areal) phr - length = 10; Court << " perimeturis" << on perimeturis; phr- bueadon = 5; Cout capter -) areal); Coute phro pulmeril);



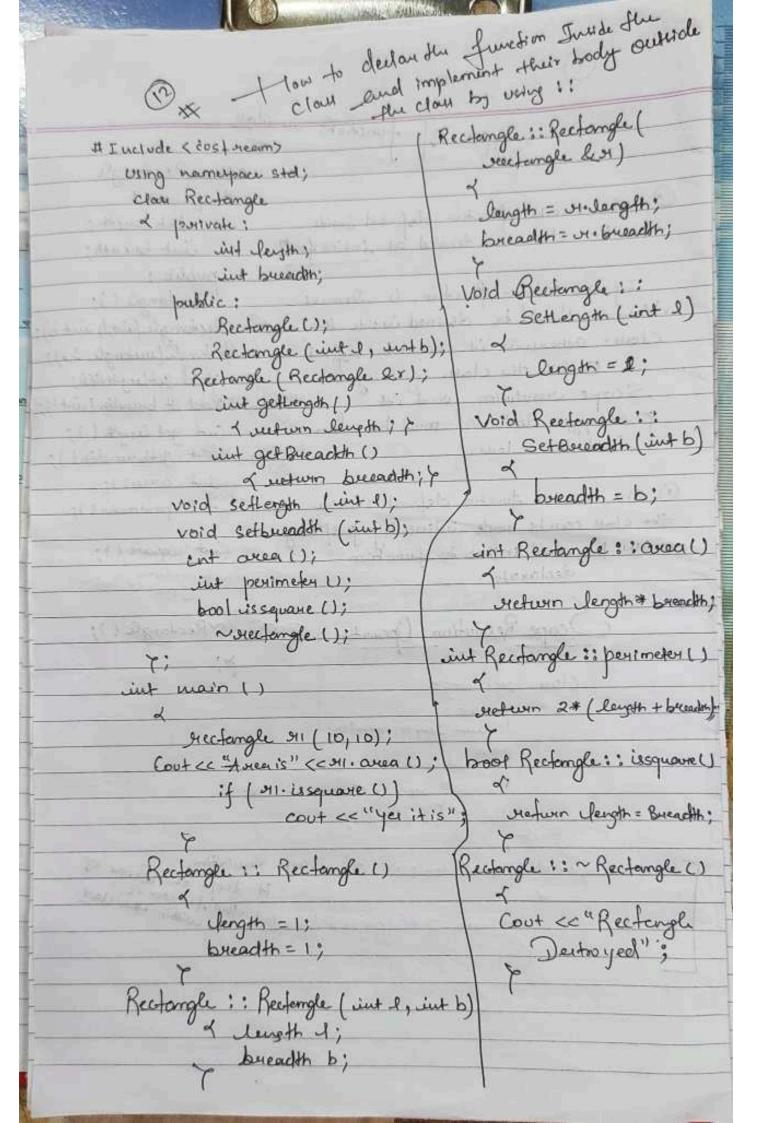
Ext- class Rectangle and pourate to the state int length; but bereadth; bublic: property for Void of set Length ( int 1) Accessor - get xx 4 if (17=0) Mutator - Set xx langthal; else. length = 0) Void Set Breadth (int b) void mound Rectangle un; 4 if (62=0) bueadth = b; suset length (10); 4. set Breadth (5); else byeadth = 0; Court ex reget length (); inf getlength () & yeturn length; x yetum byeadth, onstauctor It is a special member function whose doub is to initialise the object of its claus void main Value is initralise with the Object of bez we don't get the



( ) when on object is electowed a Copy constructor is used to mittalize the member of a newly created object by copying the member of on alweady existing object. O It take a reference to on object through a Copy of the same class can augument. Sample (Sample &t) id=+.id; problem on copy constructor If there is an amy dynamic memory allocation slone by com object other the copy Constructor may not create a newmenory for it, It will pointry on the ferme memory. Ex:-# Include (iostream) using namespace std; Class Rectargle d private: int lengthie. int breadth; public: (and it does there only neturn type) Default & lungth = 1; constructor breadth = 1; parametorsed arectangle (int o, int b) Constructor & setlength (1); setbueadth (b);

Constructor bueauth = 21. bueauth; void settlength (int 1) if (170) length = l; Void got Setbreadth (intb) if (b70) bueerdth = b; else me man breadfn = 1; ant get length () interest () int get breadth () sufum bueadon / > int area () & vietum length \* bueadth; > 4 · Andrew - In 11 ratangle 911; 1 ( Cout << 411 (10,5); Cout << gir aueu() << li>Chall; Hapy Constructor " Recoforagle 911 (10,5); sectoragle 312 (311); Cout << 312. au en () << endl:

functions in class Clau Rectargle 4 puivak: int length; 1 The member function classical inside int breath; the class we treated as inline form?. public ! Rectangle (); If the member function is small Rectangle (with, int b); Claur. Other wise it should be defined construction then it should be defined inside the Recotongle (nectorgle &x) ? Discologype declaration must be close the indicate and and it Yold Setlingth (6td): the metrical gethouseldh (); inf area ( ); and perimeter (); 1 The member function defined outlide the class can be made inline by prefixing Inspector [int Isaquare (); fur leguord in line to function which defund full declaration. Destructor ~ Rectangle (); cope Resolution Class sectemple int length, burealth, Hetwo Septim becarding perimeter (): it scope to Scope of Scoope Revolation. int sectorglist i perimeter return 0 \* (Jength + hueadth); this function this down



Inline Junction The function which one expand by in the June line where they are called I for that function. Clay Test If you define a d public: function inside the void fund () class ther it is inline of Sf you define Outside > Court << " Inline";
then it is mon-inline Void fun? (); (Void) Jest ! : fun 2 () Outride function inline & cout << " Non-Inline"; int main () of Juft; t. fun(); winline void fun (); t. fun 2(); } Struct Demo Difference blu structure and c++ is (in c+ In C++ Structure looks life a clay 1 But in Class Demo 1 all date member I greense function are pulso but in Staucture evolthing is public Bydefault.