Limitations of struct:

- i) cannot declare public/private property
 ii) cannot define operator everloading
- So we use class in Cpp.

Constructor:

- i) constructor does not have any return
- ii) constructor should be inside public score
- vii) constructor name should be exactly some

Operator overheading: when we create

user defined objects and try to use operator on those objects, we need to

define operators, now they should behave

Its called operator overloading.

Example: C1 = 1 + 2i and C2 = 2 + 3i

If we want to evaluate C1+C2 then

we need to define how t operator

should work

CSE 20/1/2022

Inheritance:

prohibit to -> private and cannot access from outside but it can be inherited into another classes.

private -> cannot be inhorited into other classes.

class rehicle
fuel()
(apacity()
apply breaks()

super class (parent)
sub class (child)

class can/bus/truck:

can be inherited here

class parent { Public:

int id-P;

Class child: parte public parent & public:

3: int_c;

void main () { child obj: 06j_c=10i -> posit publicly inherited no error Obj-P=15; -> if private/protected , then error and need function to assign value. class A { public: intu; protected: privated: 1 mt 9 class & 6: public A & n 11 public y 11 protected class c: public A. & n // protectes y 11 protected class D & private A 2 n 11 private y 11 private

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Barre class member	Type of inheritance		
Specified Palai	public	protected	primate
Anblic Protected	public	protected protected	Private
Private	×	×	×

(#)

) single inheritance:

chass vehicle {
public.

vehicle (16 { eart <<" It is a vehicle." (Kendl;

car obj;

Clays B {

int a;

Public:

int bà = 10;

void get_ab() { a = b;}

as postorio

int gct_a () { return a; } void show al) { cout << oi << a << a << c > d) }

Lamarate Alex

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clss A: public B { int c; public: void multip () { c = b * get_al);} void display(){ cont LL "a" (< get-al); cont LL "b" LK 5; cout << "c" << c; void main () { Aa; Out put a.get_abl); a. multip () i a. show_al) a. display(); Dutput a.bz20) b 20 a.multipl); 0/00 andisplay():

Multiple inheritance. class vehicles public: vehicle() {cont << ".vehicle" <end; } class fourw & public; fourw () { cont << "4 wheel" << end ! } class car: public vehicle, public fourw { ontput vehicle, 4 whell multi layer: hiarachical's JbriJ: