Sefining Clas functions Features of OOPS

1) Encopsulation - means to combine Var & Jun into clauses.

Var & Jun into clauses.

The word comes from copsule which he word comes from copsule which is a collection of I or more medicine is a collection of Similarly, class is a collection of var & Jun.

2) Inheritence:

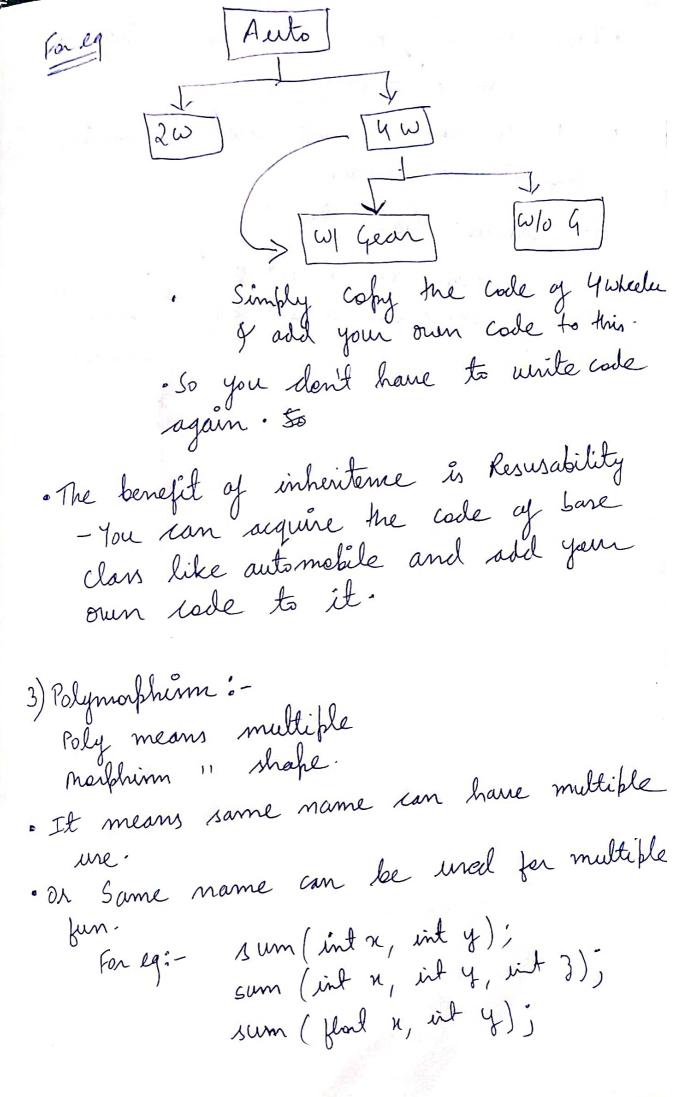
Clarses son be inherited. There will be a bare clars & other clares will inherit or acquire the properties of this bare clars.

Automobile

2 Wheeler

4 Wheeler

Suppose there clames are already created. If you want to inherit create a dan for 4 wheeler with gears, you can simply copy code of 4 wheeler & add your code.



- · There are different fun, but they all have same names.
- · But, the condition is that parameters should be different.
- · You cannot have this: -

sum (int a, int y); } both have sum (int a, int b); } same faram.

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Defining Clars Fun
The code is divided into 3 regions:
class) I class is created here This is class specification
main >(2) [(05) r created here
. The third region is defining member fun-
there you will write the second that you are using in your class. For eg. code for set (), get (), add () will be written here.
. Now let's see me complète code for
· To define a fun, your will will
void (clas name): (fin name) ((Parameters))
} // fun code
:

star jugalar De Create a class named my class. It shud have 2 var: 9,6 " have 3 fun; set () get [] add () · Write code for class · define member fun · Create tues obj and arrign, frint, all Values. A class myclass prinate: int a, b; fullie: veid set (int x, int y) void get (); Void myclans: set (int x, int y)

void my clans: get () cout << a << endl << b<< endl) (Fun-2 void my clan: add () cout << a+6 << end; ent main () mydan obj 1, obj 2; 0 bij 1. set (10,20); obj 1. get (); 06j 1-add (); 06j2. set (100,200); 06j 2- get (); 0 bj 2. add () . Notice how you have defined fun-I Jun-2 & Juln-3. You will follow same fattern now onwards.

Create a class student.

It will have 3 van-RM > roll no. MI + marks 1 m2 -) marly 2 It 11 3 fun -> set()-) amign get() -) Print add()) add mi & mz · breate class · Write fun definitions · Create 2 obj -rJb Ans class student private: int rn, m1, m2; public: void set (int x, int y, int 3)//set vaid get (); has 3 parameter b cog there are veid add (), three var.

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```
void setstudent: set (int x, int y, int 3)
                   11 Assign values
        rn=x;
        m1=4)
         m 2=3;
void student: get ()
        Cout << mn << m1 << m2; // Print values
veid student: add ()
       cout << m1+m2; //add marks.
int main ()
      student obj 1, obj 2; // No o/Put.
obj 1. set (1, 20, 30) // No o/Put.
                        ر زهاه
      0612
     obj 1-get () // Print 1, 20, 30
       obj 1. add () // 50.
         Intro 18 waste. I it waste A
```

05,1 obj2. set (2, 50,50); //No o/p 06j1 05;2 obj2-get (); 1/Print 2,50,50

01j2.add(); // hit 100.

100-

0/P is:-50 50

Note: - There will be no output when you create obj & une set fun. :- 0/P will be \$ shown only for get() g add () fun.

Summary: - Whenever you create a code, you will follow there steps: -
Create of Clan
define of F1 F1 F2 Create & (main ())
create & { main () } une obj? { main () } bractice vertice vertice (reate a class calculater). It
should have three variables: - a, b, c.
6 functions: - set () -> to amogn get () -> print add () -> add mul() -> mul div() -> div
sub() _) sub

· You can add, mul, div, sub there var in any order

· Write - Code for Class
- Define member fun (all 6)
- Create two obj & perform there
tasks: assign, print, add, sub, mul, div.