22-06-2024

PRINCIPLES OF OUP 15:-

- 1. class
 - 2. object
 - 3. encapsulation
 - 4. Mertration
 - 5. Polymorphism
 - 6. Inheritanie
 - 7. Dynamic Binding
 - 8. Message communication

24-06-2029

1. CLASS: - It is a collection of similar objects.

A class is a factory which produces different objects of similar datatype.

[object based]

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Java Script

2. OBJECT: - An instance of a class is called an object.

An object is a callection of mess properties; e callection of members is a callection of members in a callection of members is a callection of members in a callection of members is a callection of members in a callection of members is a callection of members in a callection of members i

3. ENCAPSVIATION: - It is a process mechanism that the members & the methods bounded together to protected from unauthorized access.

4. ABSTRACTION: - Ouating new datatype through encapsulation.

The detatype which is ovated by shitraction is well shitracted Datatype [A) T]

The simplest example for an abstracted datatype is a "Class" 5. POLYMORPHISM: - Poly muns many OD more Morphism means Action POLYMORPHISM RUNTIME COMPILETINE & DYNAMIC BINDING & FUNCTION OVERCOADING * OPERATOR OVERLOADING 6. INMERITENCE: It is a probes by which I was objects acquires the properties of another class object. 6: - WAP to add complex numbers: 2 3 # using namespace etc.; 7 +41 # include < ioetram > Mythia Mythia class complex in the little of the land of the land of the private: int 1,6; Julia: Void get () cout << 'enter 1, b";

cin >> 1 >> b; void add (complex p, complex q) a = p. a + q. a;

b= P.b+q.b;

```
void put ()
      cout << a << "4i" << b;
main ()
  complet P, a, n;
                              Enter 4,6; 2 3
  p. get ();
                                Enter a, b; 5 6
   9. get ();
                                7+19
    91. add (P, 91);
  n. put ();
this: This is a pointer which always refere 'current address'!
-> Using namespace etd;
                        Many freely our - Reader and
  # include < i ostream>
  class complex a
   t private: int a, b;
     public : voil get (int a, int b)
                this -> A = A;
                this -> b=b;
            void Add (complex p, complex q)
               a= p.a + q.a;
               b= P. b + 9.b;
```

```
void put ()
        ¿ cont e e a e e "+1" « e b ;
. };
main ()
                            2 8 tr8
  complex p, a, 57;
                           RARGUMENTS (1,0)
  P. get (5,6);
                            A Coston Hanson
  9. get (3,2);
   r. all (P, av);
```

7. Jut ();

METHOD O VERLOADING: Relicing same name for different methols, with different methols, with different methols, type of arguments with (or) without same return type is called Hothor overloading.

It provides opportunity of giving same name for similar operation methods.

```
Exituring nameshore etd;
  # include < i ostream >
  class complex
     private: int a, b, c;
           float x, y, ?;
     public: void get ( int a, int b)
                               Part Land Hards
              this -> a = a; this -> b = b;
                           Charles of the
            void get (float x, float y)
               this > x = x; this > y=y;
           void add ()
                                 FIR A POMAN EN P
           { c= a+b;
                                      Enter A, b: 1
                                      Enter 4, 6: 3 4
            2= x+y
                                     4+16
            void display ()
            E cout << e < "In" << 2;
  moun ()
                        別のアインをそう。27、松野
     complex P;
      p. get (5,6);
      P. get (3-2+, 2.3+);
      p. all ();
      P. display ();
```

```
STRUCTURE Using Pointers:
                                     Carlo Maria
 # include < etdis. h>
                                     chastary,
- ) intracin ()
                           CLODE
       struct book
                                  2011年111日
       and a;
                                19 /P:-
                              is the first (i)
       struct book p= {5}, xq;
       q=kp; // Attended in A. A. C. Mile
       Jounts ("1.0", p.a);
       printf ("7.d", p > a); 1 1 1
                   - K - With the French - Will.
> # include < i oetream >
                              C++ CODE
                                 1. Mil way.
   wing namespace std;
                                5. 5. 5.
   main ()
       struct book
                              in Walter Tight
          int a;
         strant book p=15), *q;
         9= kP;
         cout La p. a Lendl;
          cout << q>a << endl;
                                            5 1 1 1 1
                                     ( ) KG W - 12
```

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