## - i Objected oriented Programming 1,-

Opps is approach of developing Software in todays work In this every component is an object and how two things

a) data: also called attributes/property/data menu.
b). function: also called method/behaviour/actions en

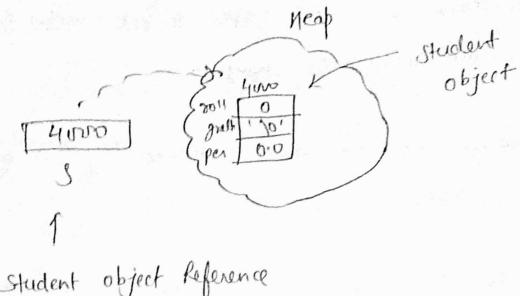
Syntain of class; -

Laccess modifier> class < class - Names

< access modifier > < datatype > Van Name = (values; < access modifier > < data type > Van Name = < value);

Laccess modifier > < datatype > Vari Name = value;
Caccess modifier > return type < method - Name > <angle list)</p>
1/ Method body

```
Class Student
      int roll;
      Elnan grade;
      double per;
3
class Usestudent
     public Static void main (String [] args)
          Student S;
           S = new Student ();
          S. roll = 10;
          S. grade = 'A';
          S. per = 76.5;
        SOUT (+5.8011);
         Sout (+5.9 rade);
         Sout (+ s. pen);
```



Student object Reference

Drawback of this Code!

Althorough the previous code Compiled as well as enecuted successfully, but breaking the Rule of out a Concept could "ENCAPSULATION".

\* Encopsulation says that the data members of class should never be accessed directly from outside the

Thin in because of Security Reason data Can not be accessed outpide the classes.

- ISO to make our Code proper object oriented Code, , we will make 3 changes.
  - 1) Declare all the date memember of Student Clay as private.
- 2) Define method/ member function in the Student class to initialize and display the Values of these data member.
- 3) From the driver class, instead of directly accessing Roll, grade, per, call the Method defined by the Student class.

```
Class Student
     Privale int Roll;
     private char grade;
     Private double per ;
  public void set Student 1) &
        9611 =10%
        grade='A';
         pen = 18.5;
     3
  public void
         System. out. printin ("Roll = "+Roll+" In Grade = "+ grade+
                               " Inper = " + per );
       Use Student
    public Static void main (String [] angs)
         SI= new studentl);
         SZ= new Studenty
```

```
SI. Sef Student();
S2. Set Student();
S1. Showstudent();
S2. Showstudent();
```

3