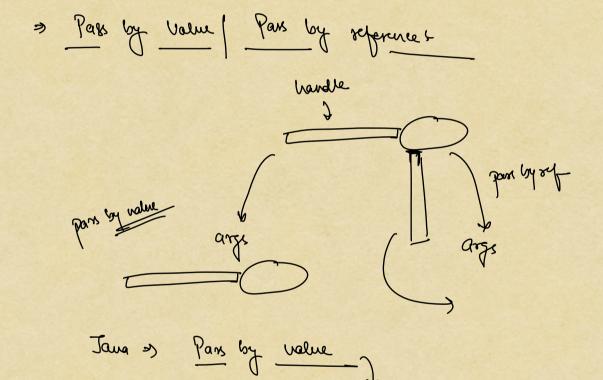
Agunda :

- 1) Pass by Value | Pass by Reference
- 11) State
- m) final
- 14) Abstract class
- v) Associations



whatever organient we pars to a weethod, it parsed by creating a new copy of the attribute of value.

```
psum() §
            int x = 10;
            "int y = do".
            swap (x, y);
            but (x, x);
    swap ( int n, int y) & [x=10, y=20]
          in tup: n

y: tup

y: tup

y: 10
3 ps vm () {
         Point p= New Point();
           p. x = 10; -
           P. y = 20:
         swap (p) - p wilds refloading to the Egect
         print(p.u, p.y);
```

3 Swap ( Point P) & a copy of oddress is being passed "in tup : p. n p. x = p. y Nokhove

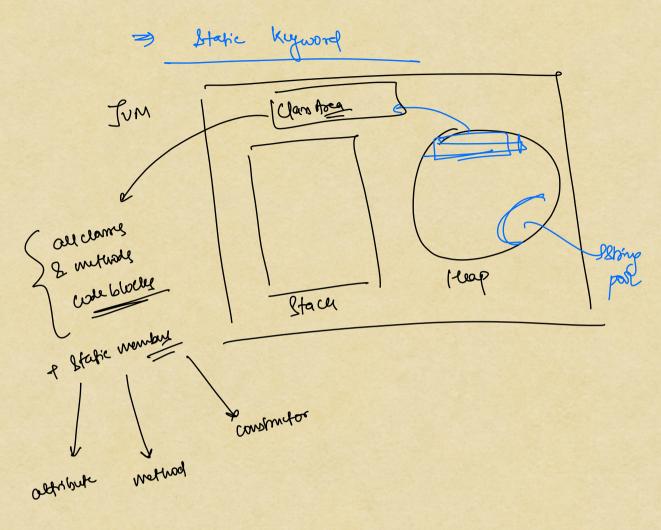
```
bern () {
_ Student SI: New Studente;
____ Student Sd: New Studente;
     Swap (51,52);
 31. display ():
  Swap (Student SI, Student S2) {
         Student temp = 51
                                 int tempage = SI.age
              S7:52
                                  SI.age = Sz.age
                                  SL. age = temage
              SZ = temp
 SI = OFFICE
 CZ=Q156 @1
 temp: O12
```

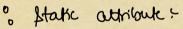
@456

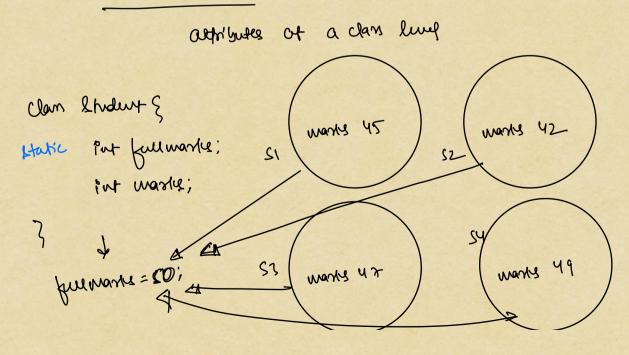
gray

52=@416

SI:@123







ClassAprea =) full Marks = 50.

Objects =) S1 S2 S3 S4

o Static methods

· methods which are prosent at

- ukuty muthads

Clans UKILL &

Call method without creating object

Static methods

-> Always a static member (attribute furthal) is caused | Privated wring Clars reference [clars name]

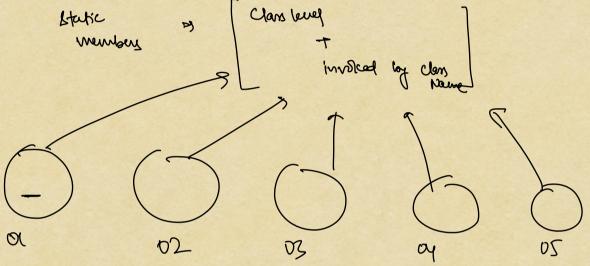
Student Stabicherhood() Student s = new Student(s);

S. Stelic Attribute : 10 ]

works but not a good practice

Puternally. Jana fetches class name seference

By [ Class level]



Object level altributes & methods [ puride each object in heap object home object home

		Static additude or without	Non-static altribute or wethods
non-static method	7)	Yes	Yes
Static Wether	4)	Yes	No.

Static method always Latted wring classiance, but now-static variable need overidding of State methods; or yes & Spelmospiem . Student ( Scacher Cate vary print Name (UST (UST) User) { Keyword: altribute metwod Clan Name contendit/conthave any child it wy Cent override constant once the Object is

created

Interface t we want methods to be present to we want each method to have its over molementation anchact clan - we want methods to be present t we want each method to have its oven Implementation we can have common alphibutes of me can have some common methods also Nehille - Juterface Fledric Car motomers Mahindra Toyda rodomens mxc) { = } notomers rodomens

Vehille => interface abstract days

Anstract class be a class that can confirm abstract wetwoods.

of Should an abstract class have address to abstract method of MO

of can we create objects of an abstract class

s) NO.

& Can abstract class have a constructor?

but to initialise the variable

an implement multiple

interface

and the constitute of interit

can shill interit another

can implement multiple

interfaces

5

Abstract class a X

class of extends &

clam & cartered X, 2

class Student &

int ide

int mady

Address address

association

UNL diagram

(roy golus)

aggreation

1

U

clan Address &