INTRODUTION TO OOP'S

* Real world examples

* kay Concepts

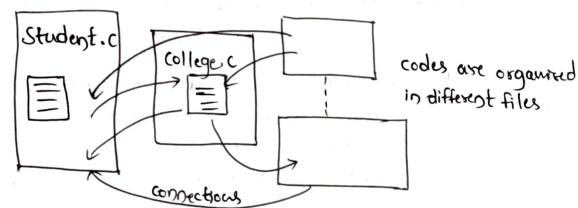
-> class, object, encapsulation Building of data and methods

-> Coustructors & Accus Modifiers.

Most of the Modern softwares are Built using object Oriented programming

*why we need object oriented programming.

Before using oop's concept programs of software are written in Different files.



When software data increases or two use of software creates so many connections Between other code files of a software which created complixity to understand two code X Difficulty to modify.

*Maintaince & Management Becomes a Big resw

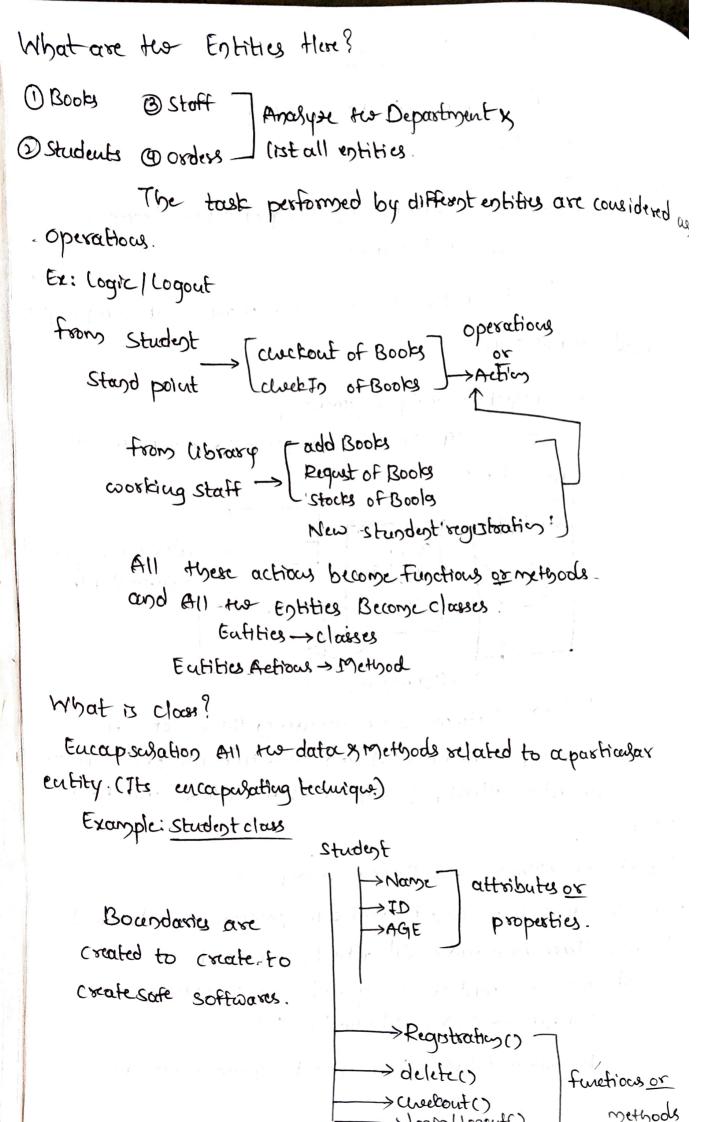
* To solve this issue object oriented programming is introduced

* Suppose Take any real world activity or concept.

- what are twentities we required to create software for it.

- Eutities - Read world Object's - Actors

lets take a Cibrary Management system as example



How to use this class?

Classisoire used by exating objects lets take stamps arexample

Stamp class

point stamp

objects of

Stamp

rs called object.

Student Raghu = new student();

Defines variable

Defines Variable

Defines Variable

Defines Variable

Stored Object of Class Name

Stored Stored Student

Variable 05

Here student

Class

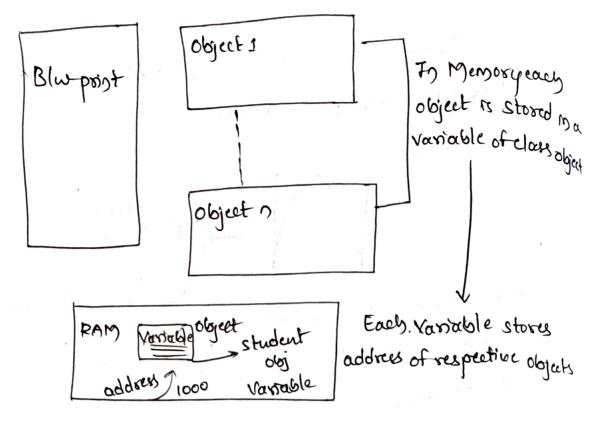
Instance

Here Variable 'Ragum' is a variable of type "Student class which story two address of object of Student named "Ragum"

we created a New data type

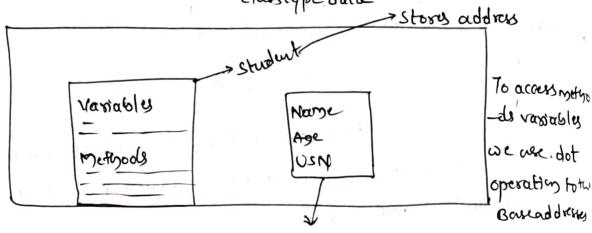
Class is Nothing But (realing Custom Datatype

> Uke thus we can excate a "N" number of Instancy or Objects with two colp of class.



Classtype Variable= new class Name ();

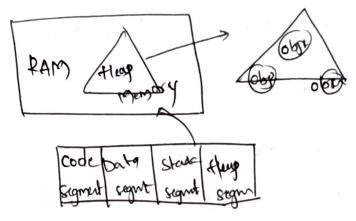
-> Stores the settreme address of object of classtype data



Student. name - Accessing

Objects are allocated dynamically (Dynamic Memory)
Allocation)

So the memory for objects are allocated in PAM in Hap Memory Segement.



Now are learned about classes and objects we also learned about creating of Instances.

But the wobjects are deleted (delettery of unused exobjects wereb don't have referred)

delettery thandled by garbage collectors

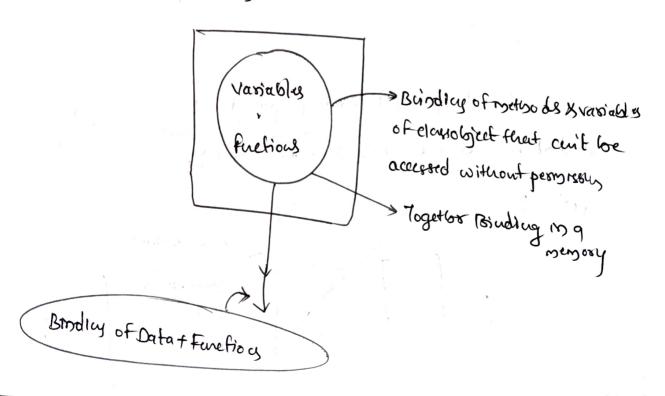
Garbage collectors find the an used objects and Cleans from the Memory.

Heap Memory we can Access it

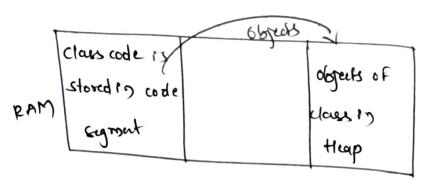


Objects are accused only if we have address of it

Eucapsulation: -- Bounding



Coustrators: > need to set value to data ent of object Class studenty public string Name; Vanables / Aftributes/ properties public Styling Age; // public string getNane() & returnaturs. Name; / fuetion constantory. public student () of Exemple for some functing thrs. Name = " "; Hors. Age= 0) y public student (stony Name, int Age) this - Name = Names turs-Age = Age) Creating obj Reserving space forit Student new-student = new student ("Rom", so);



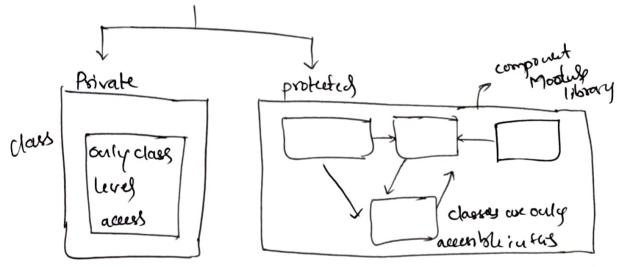
Code adways resides in code signent objects in Heap Mapricip

Access Modifiers:

private - There are Restricating for Access

protected - More Restricating for Access

used to protect Data



Incurrence os also supported

Access Modifiers -> Security Guards