# Object Oriented Programming

procedura oriented Security Reusable

## What is OOPs

OOPs is a programming technique which mainly revolve around real life objects

- Data Type
  - primitiue

  - 11) Non-primitive

    (11) User defined

int x = 'Y'

int and)

# Classes & Objects

```
Class
```

It is user defined data type, which contains data members (variables) & methods (functions).

```
Syntax:
                               class Person
                                   int age
class ClassName
                                   String nm
   // data memeter
                                   void show()
    // methods
```

Made with Goodnotes

int x = 10

```
Object
```

It is a instance of the class – which tells what kind of operation we can perform on the class.

CPP

Syntax:

classNamu obj

Person pramod

int 1

## How to access members of the class

```
Person Obj
class Porson

3 intage

String nm
                        (.) dot operator
    void show()
                            Obj. age
    print (nm, age)
                            obj. nm
                            Obj. Show()
```

int x = 10 LOW KLY cout (( Obj



Mainly decides the scope of accessibility of members of the class



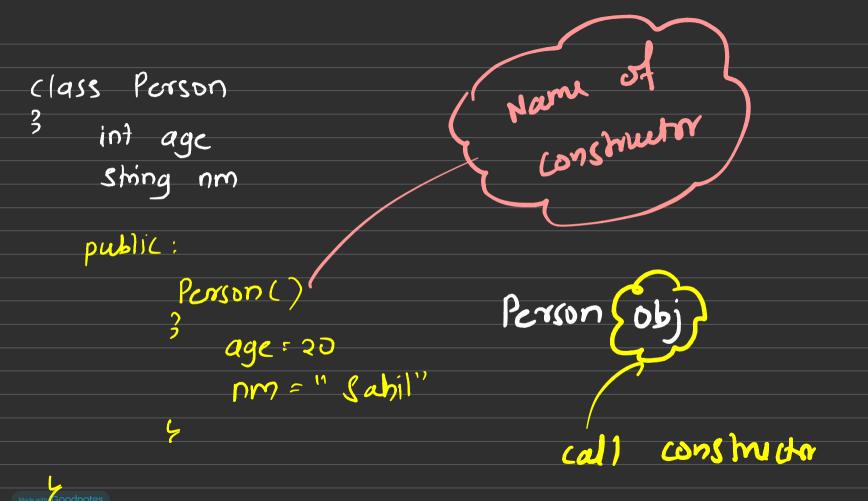
Private. By default all members are

can be accessed only in class. Public . Anyone can accessed (inside outsid) class Explict - program Implict - compiler

Made with Goodnotes

# Constructor & this pointer

- mainly helps to initialize object of class
- 1) always public
- 2) Name of constructor = class
- 3 does not have retvin type not even void
- (alls automatically moment you create
  your object



- \_ if no constructor is defined then behind the Scene default constructor Exist
- The moment you declar your own constructor -> default no longer Exist
  - 1) Default
  - (2) Parameterized
  - 3. Copy constructor

