excalibus com

## Data structure & algarithms

## 1. Types of languages

Procedural:

- eg: input a number, then add and number, then sum & puint it
- eg :- Java, Ctt, Python

Functional:

- · writing a program only in functions (burdle a code together in something, that we can re-use it) (like adding 10 numbers, just give input a add), they won't change variable but only create new-one as output.
  - · Used in situations where we have to use large datasets repeatedly like ML.
  - · Follow first class functions

re-assigning function variable name to other function

egi- Python.

Object Quiental:

· revolves around objects

code + data

· named group of properties is class.

Static vis Dynamic 1conversion of higher-level code to machine code. 1, type checking at compiletime 1. at runtime 2. envis will show at compile time 2. direntime 3. datatype doctoration not neoled 3. is needed 4. more control 4. savestime, Stack and heap memory: stack memory => ars pointing to 10" address in memor 1) It object is charged, then all net variables are charged.