Introduction to programming

Computers natively or at the base level only understand or accept bits (0's & 1's).

Types of programming Languages:

Procedural:-properly structured procedures or steps to form a program.

-step-by-step order of commands or code.

Functional: pure functions are written variables are never modified, new ones are created as an output.

-used when we need to perform different operations in large quartity using same set of data. cg: ML

Object-oriented: Object based, code+data=object

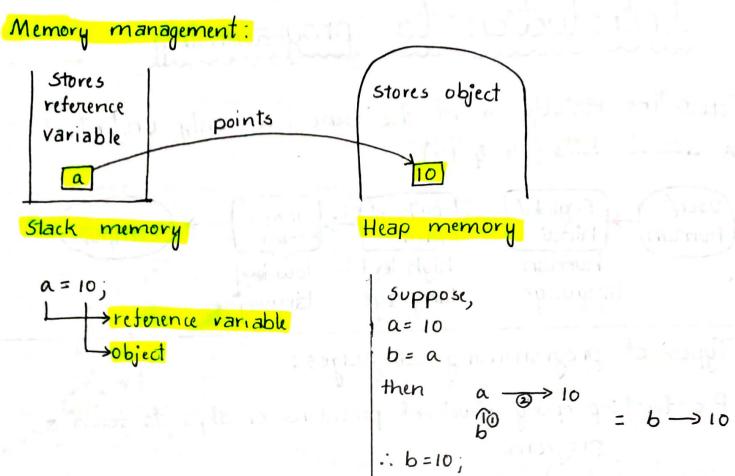
-was developed to make it easier to develop, debug,
maintair & reuse.

Static Languages

- o perform's type checking at compile time.
- o error shown at compile time
- oneed to declare datatype manually. eg: int a=3;
- but time consuming.

Dynamic languages.

- · perform's type checking at runtime.
- · error might be seen till runtime.
- o datatype is declared automatically.
- eg: a = 3;
- o time saving but chances of error at runtime is high.



-more than one reference variable can point towards one object.

-9+ the initial reterence variable's object is changed then all the reterence variables pointing to the same object will value will change egit a=10

garbage collector since it does not have a reference variable.