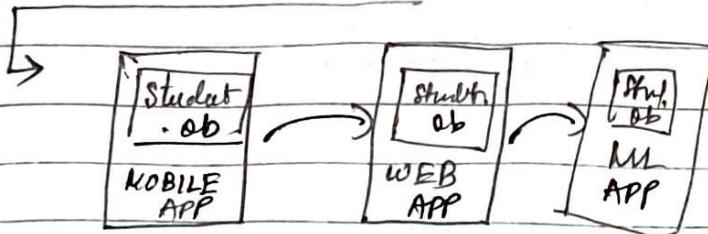


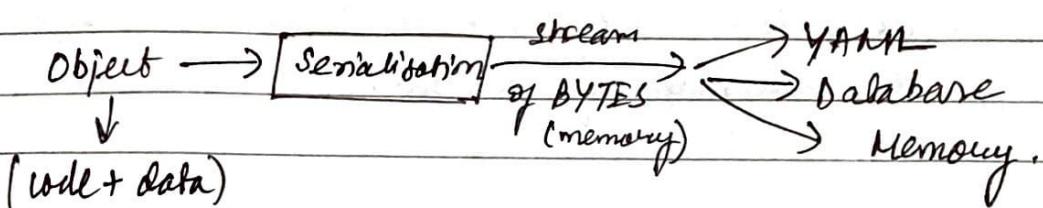
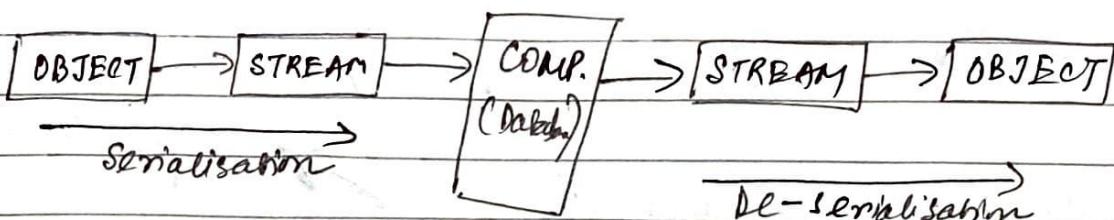
YAML

YAML ain't markup language

- data format used to exchange data.
- similar to XML & JSON.
- In YAML, you can store only data, and not commands.
- Data Serialisation :-



* A process to convert data object into a complex data structure into a stream of storage.



Used in logs, caches and config. files like Docker and Kubernetes etc.

Benefits.

- Simple and easy to read
- Easily convertible to JSON & XML
- More powerful when repeatedly copied data
- Parsing is easy.
- It has a strict syntax (Indentation)
- Most lang. use YAML.
- Various tools available
- Parsers various tool available (e.g. IDE)



YAML Demo

↳ Block

(---)
• • •

key → value

End,

"APPLE": "I am a red fruit"
"1": "This is Arup's roll number"

Key Value Pair

List

lists

- apple (# used for comments)
- mango
- banana (it is case sensitive)
- Apple
- Mango (spaces are important)

flow

cities: [new delhi, mumbai]

→ Array in YAML

- we can use string, Integer, float, boolean data-types
- Datatypes are automatically detected.

• • •

DATATYPES

int zero: !! int 0

positiveNum: !! int 45

negativeNum: !! int -45

binaryNum: !! int 0b1100

octalNum: !! int 06574

hexaNum: !! int 0x45

commavalue: !! int +540-000

float

markles: !! float 56.91

infinite: !! float .inf

not a number: .nan

This is used to specify the datatype

boolean booleanValue : !! bool No, n, N, false, False, FALSE.
!! bool Yes, y, Y, true, True, TRUE

String message : !! str This is a string "", "", ---

Null text: !! null, Null, NULL, " "

timestamp indiaTime: !! timestamp 2003-03-30T2:59:43.10 +5.30
(by default it is a UTC Time zone)

expponents exponential numbers : 6.023E23

String variable

myself : Arpan Mondal

fruit : "Mango"

job : 'swee'

bio :

hey my name is Arpan Mondal

I am a very nice dude.

write a single line in multiple lines.

message:>

this will

all be

in one single line

Advance Datatypes.

• Sequence

student : !! seq

- marks
- name
- roll-no

like this also

cities : [new delhi, mumbai]

* Some of the keys of the sequence will be empty
↳ sparse seq.

sparse seq:

- key
- how
-
- Null
- sup

nested sequence

- mango
- apple
- grapes

- yellow
- red
- green

- maps !!map (key : value pairs are called ~~map~~ maps)

#nested mappings (map within a map)

name : Arpan Mondal

role :

age : 78

job : student

or

role : { age : 78, job : student }

- pairs

pair example : !!pairs

- job : student

- job : teacher

[duplicate values]

or

array of hash table

pair example : !!pairs [job : student, job : teacher]

- set

names : !!set

? Sayan

? Joyit

? Tushar

Set will allow you to have unique values

- dictionary !!omap

people : !!omap

- Ronit :

name : Ronit Banerjee

age : 28

height : 6'7"

- Tushar :

name : Tushar Mukhopadhyay

age : 20

height : 7'0"

Reusing some properties using inheritance

Annotation



~~name Rajan Mondal~~

→ Inheritance

Likings: * base

fav fruit: mango

dislikes: grapes

Arpan:

name: Arpan Mondal

**: * base

Tushar:

name: Tushar Mukherjee

**: * base

Eg: 2

Likings: * likes

fav food: mango

dislikes: grapes

person 1:

name: Arpan

**: * likes

(copies the liking).

person 2:

name: Raj

**: likes

dislikes: none

(overrides)