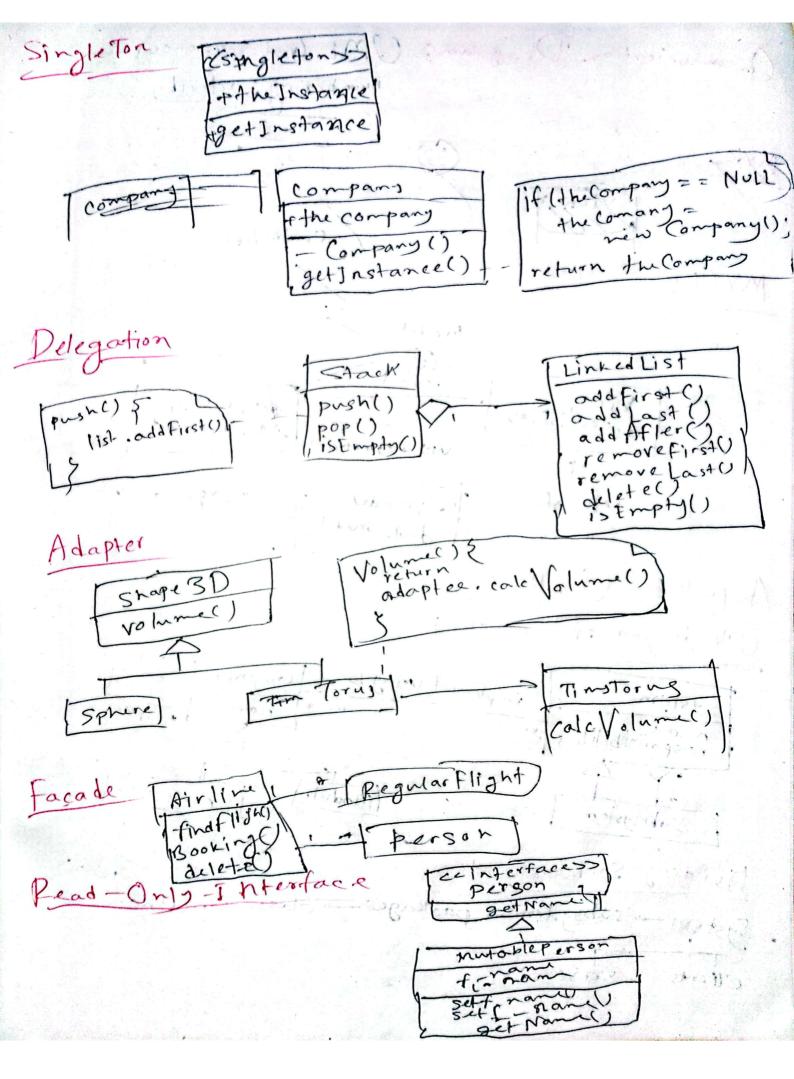
XPWhy engineer software? donce # Difficulties -> ic - dr- hm # SDLC - RD Pertal Depart Ment # Noture of Software -> IRLU W . F M I Software engineering code of ethics - ipl It Software engineering projects - Green Care # Programming style guntalines, up dog elt #type of reuse - calfed of UML diagrams - acid Episode TV Series Abstruction-Occurance seriesName produces title Employee General-Hierarchy secretary Technician Attendence 2012 Student LevelRole player Roll Full Time student GradLevel Student Undergrad Levelstut 25 Pn4 erfaces LCobservable>> Observer + Observers registerobserver + observable registerobsere the tity observer 1 concrete Observer (concrete Observer



Immunication Diagrams OML (not sequence) + numbering: activity Controller Model View display Controller User input mangulate refresh model data model Aspects of Chability: eela UML diagram of System Parts implement using & Tromponent System responsibilities module 5 ubsystem Dividing Software system System - subsystem packages-SETVEYS Clients

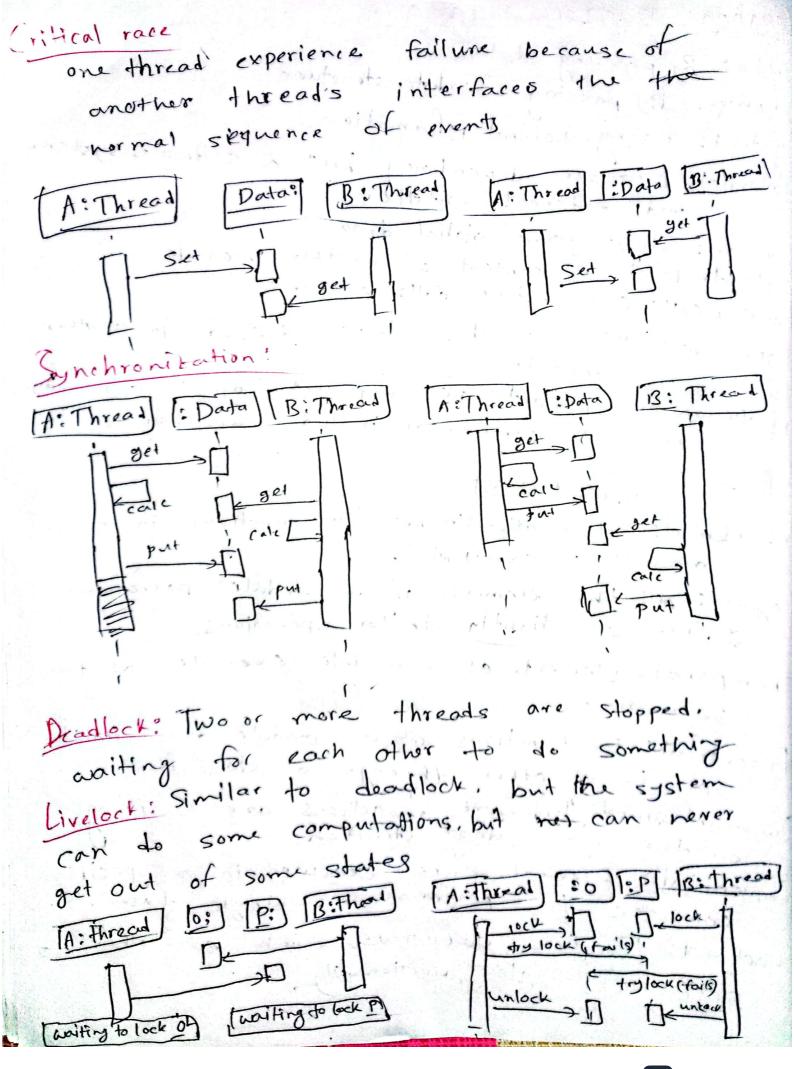
Coupling: DSCECC Data: By passing Lata.

Data: By passing data structure Stamp: By passing of dota structure control: using control information External. Meausure dependency bet a software system and external entitles Common: Share some global data Content: part of content of another module.

Content: One routine calls another. Type use: uses a data type defined in another Inclusion or import; one component imports à package or one component includes another Cohesion: CLTPCSF Coincidental: Only relationship between functions in a module is coincidental. Logical: All the elements of a module perform similar or slightly similar operations. Temporal: Elements of a module execute at the same time. Procedural: Ex Functions of a module are related to each other through a data flow. Communicational: Different functions are working on the same data struction Sequential: Elements are executed in a specific sequence to perform a single task.

Functiona: Eurofions co-operate with each other to

perform a single functionality,



White Box	Black Box
Developers can penjoine	Test engineers can perform
What the software suppossed	What, the software supposed
to do, also aware of how !	of how to do
should have under starding of programming languages.	SNo need to have an understanding of the programming language
We will look into the Source code and test the logic of the codes.	We will verify the applied functionally of the applied based on requirement opecification
Developer should know about the internal design of the	No need to know about the internal design of the code
Applied mainly at withlows higher	to every level of testing
Easy to automate	Tough to automate
Structural dest or interior	or external desit
1 input	4 input
Toupput	1 output