SOFTWARE ENGINEERING

* Soft ware:

It is a collection of integrated

prgms.

Engineering is the application of scientific Eq practical knowledge to invent, design, build, maintain and improve frameworks, processes, etc.

* software eng:

Engineering branch related to the evolution of software product using well-defined scientific principles, techniques and procedures.

The rist of sieng is an effective and sulfalole software product.

-> Importance of sieug:

Jecques Complexity:

It offers structured approaches

like modular design, abstraction

which hip in braking down Comple

systems into manageable components.

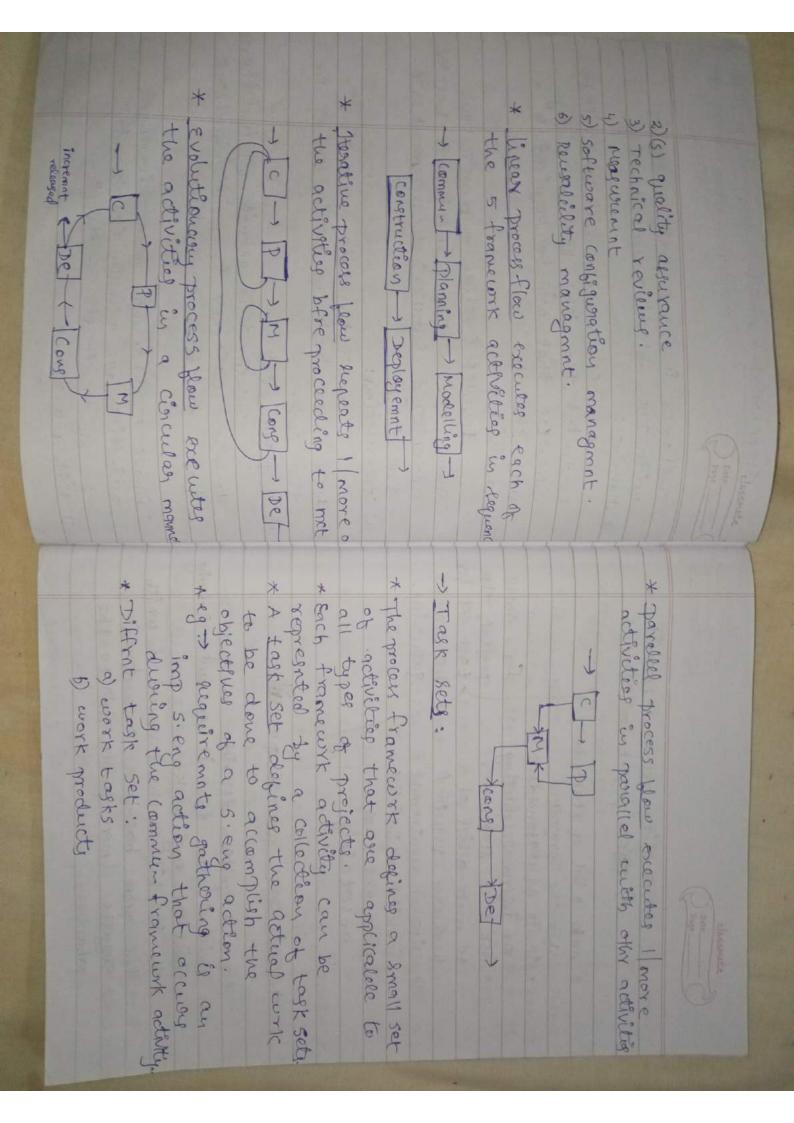
2) minimised software cost

3) Reliable software

4) decreased time

s) Handling big prejects > Expectiveness - Rest practices of Software eng: * It is a bread array of concepts, principles, neetherly be tools that a sienz must consider as software I planned be doublaped * Expective communication: (a) Plan a solution: (b) Examine the rsit for a councy: - Customers be legg that (5) manages, customers be dead that (5) manages, customers be deaded and attributes the bassey.	(s) -1 software	
A greater nagority of (3) seelabed proms average bez of the nights that borned stages. Same are: Software managers, who can the responsibilities, including keeping the software textury to pushing assurance software textury to pushing software textury to pushing responsible to more bugs software pastures will softly hadding more pastures will softly by all customers pastures will softly by all customers pastures will softly by all customers	O Sale Mariante	

E 6	production of a (5) systm. A (5) process framewyk is a standard conceptual generic process model of a complete s. eng process.	Je s	teamwork are teamwork ask collaboration of the evoluing the teamwork and the fastest continued to the fastest continued t	* customery don't care alcount
non ob unlocalla activities,	based on their evaluation.	(4) construction: Involves the code generation to the time preprised uncovering errors in	Describes the technical tasks to be conducted that will be required by a work shedule. (3) Modelling: Involves Creation of models that allow the developer of customer better the design.	Stake hold xs -> Developms, designs some cete



* It identifies the environment in which * Suggests Ilmore proved Soly to the prom.	* process pattern doscribes a process- selated prom that is encountoned during	an certainty		er & &	* make a list of Stakeholders	Control of the state of the sta
* Assessment attempts to understand the curnt state of the software supprevious it.	process, evu who the overall from of adflutter & therative in nere. of assessment by ing.	3) These patterns: alogines a sequence of framewike activities that occur with the	2) Task patterns: alefines a prom acsociated with a 8. eng action work task.	It is cluded multiple task pattern as	* Patterns can be defined at any level	- decounts

2) process Analyze: the (5) process are measured. * saftwave process improvent (SpI) involves undoestanding the existing processes to rise smallest fundamental these processes to rise Stages Oue: themenal process improvement is a The process needs to be accessed practices that are used to douden enderal process count process is assessed to process development time. I mprovmat. to evaluate methods, tools & & test the software for process *meas work Analyze a) CMMI: (capa bility Maturity Madel Integrates) · managed lovel · Repeatalore level: Basic project management organizations mach diffrant levels of process capaleility is motherety.

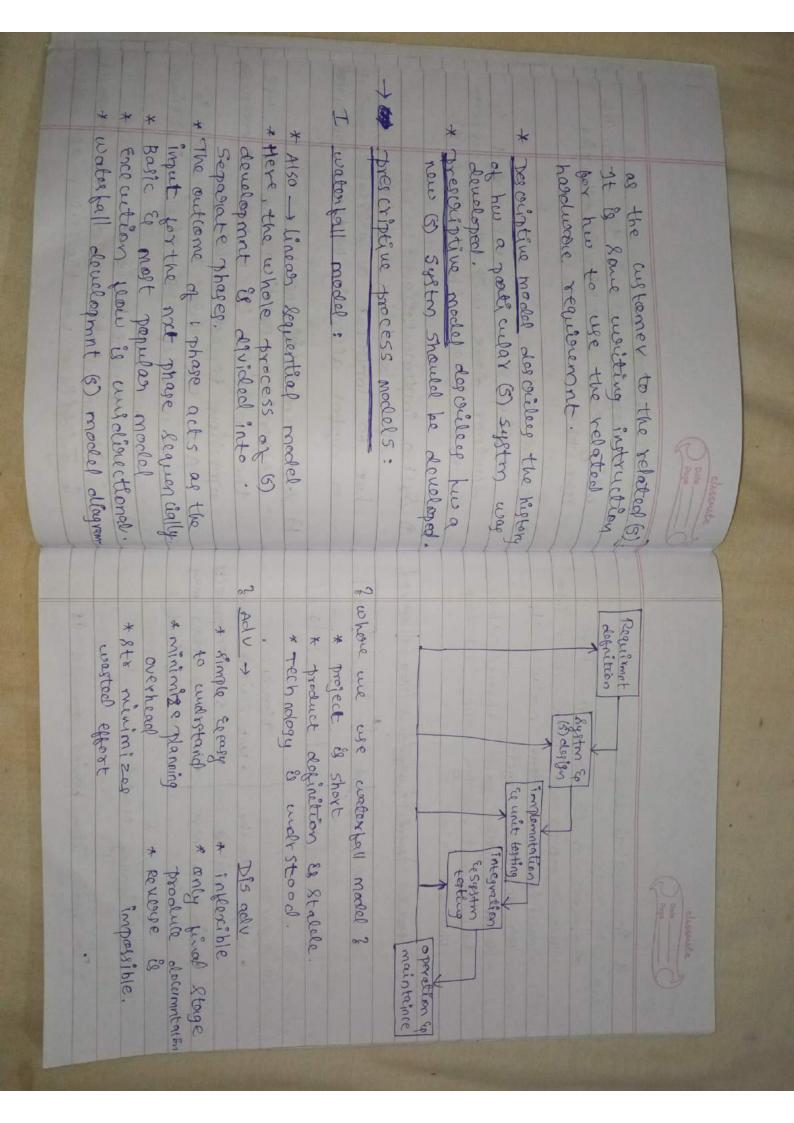
* CMM'S 5 malwritz levels
· Initial level: process are disorganized. 3) process change: · De Himed Lewel * Based on a set of Ryston & s. eno · Approaches used for accessing (s) processcapacolities that should be print weakness be bottlenecks able identified weg knesses. address some of the identified process process changes are proposed to : how, an organization process es through class a monitors & controls its own has developed to our Collection. Standard (5) process.

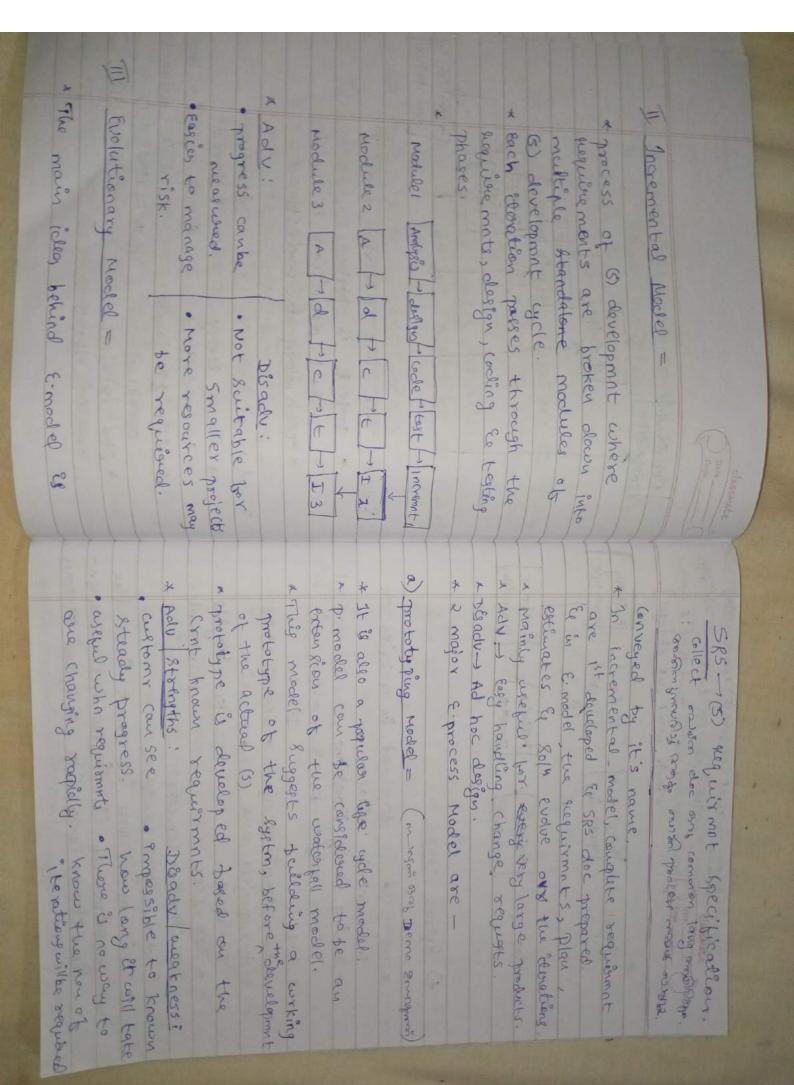
b) ponformed entertal alove products associated expends on motivictual knowledge	explinizing lend: here processes are able through soing improved through monttoring beading through through monttoring beading through through monttoring beading through incomplete. I capability lends— I capability capabil	
* SDLC & an approach for making & for the developy, user & customer. * SDLC bocks on the Entennal phase to the end phase for making posts culous &.	Exidentificable products. The processes Exproducts are verifical actions of perfect the proceding to the proceding. A) well-defined A) quality independed. C) Iso gool:2000: [Intractional organization for standard organiza	

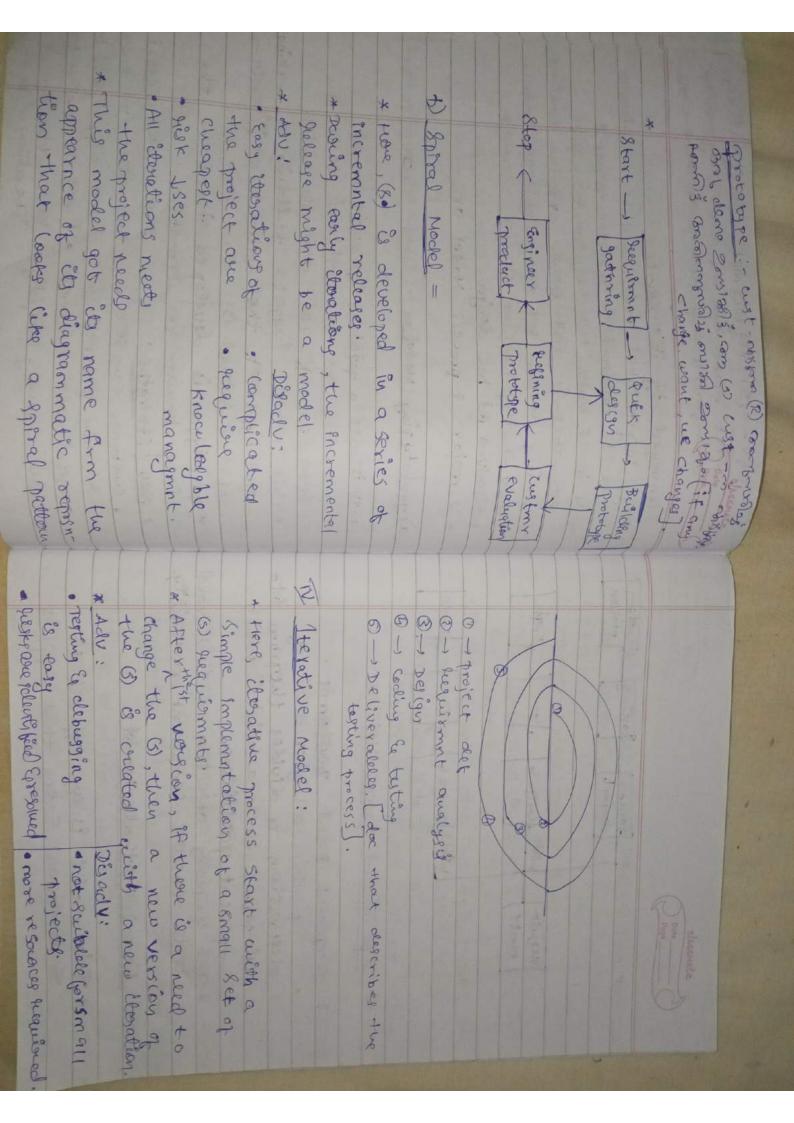
d) bystom design: System analysis: the whot type of flow chart, data flow diagram. 5) Feasibility Stucky:
Feasibility defines in 3 vieurs for making particular (5) for the client.

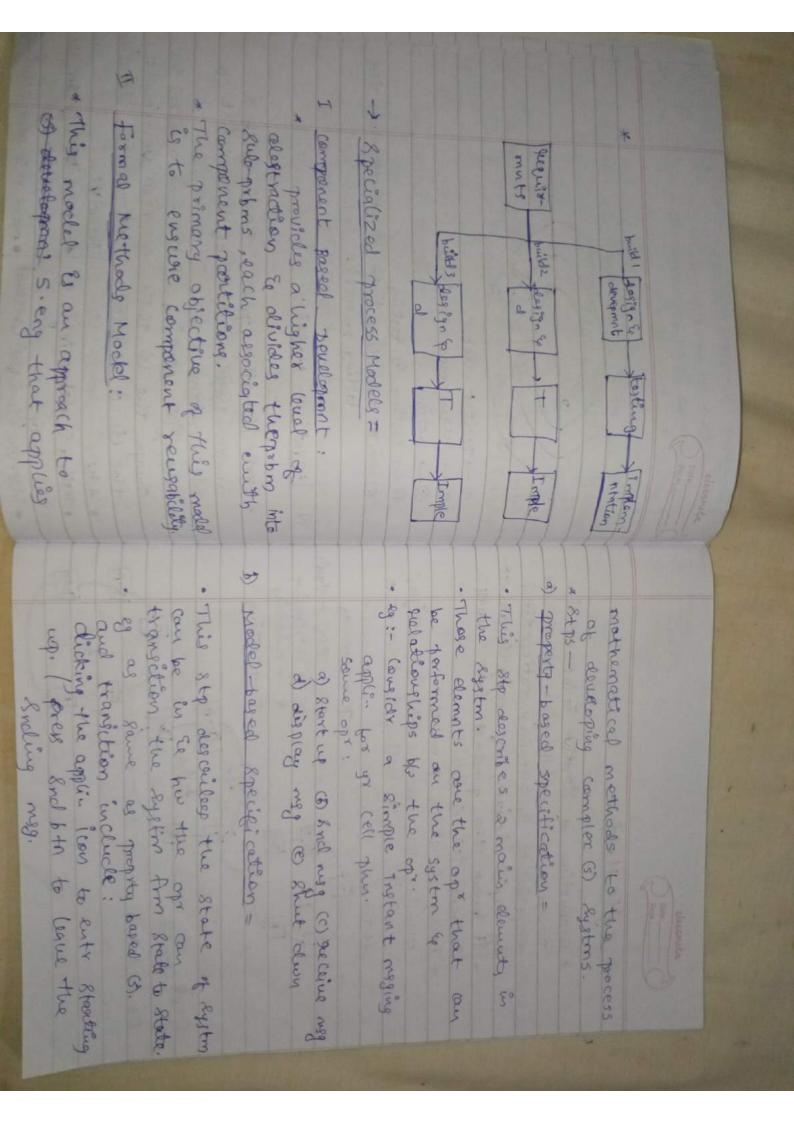
Technical (F) diagrams related to the particulars a) project identification: The design include in the format desided (5) we to make for the Finan way (F) It is a new to paper process Client. Social (E). SDLC has some specific Thoses + The analyst draw the corresponding client for making the clasified (5). a) System implementation:

Abter completing the testing, we have to implement a pasitiful as product f) system testing: 1) System clocumentation: b) Lyth maintanne: e) Systm development: of error five to the desided (5). & guidelines for the user as well the particular (5) to there corresponding operation to active their job. for the particular (3). debarking or system alloyaling to the customer need other utilities are also maintained After implementation, the wers Also, the related hardwave, (5) & Development refers in the form of documentation refers the approach

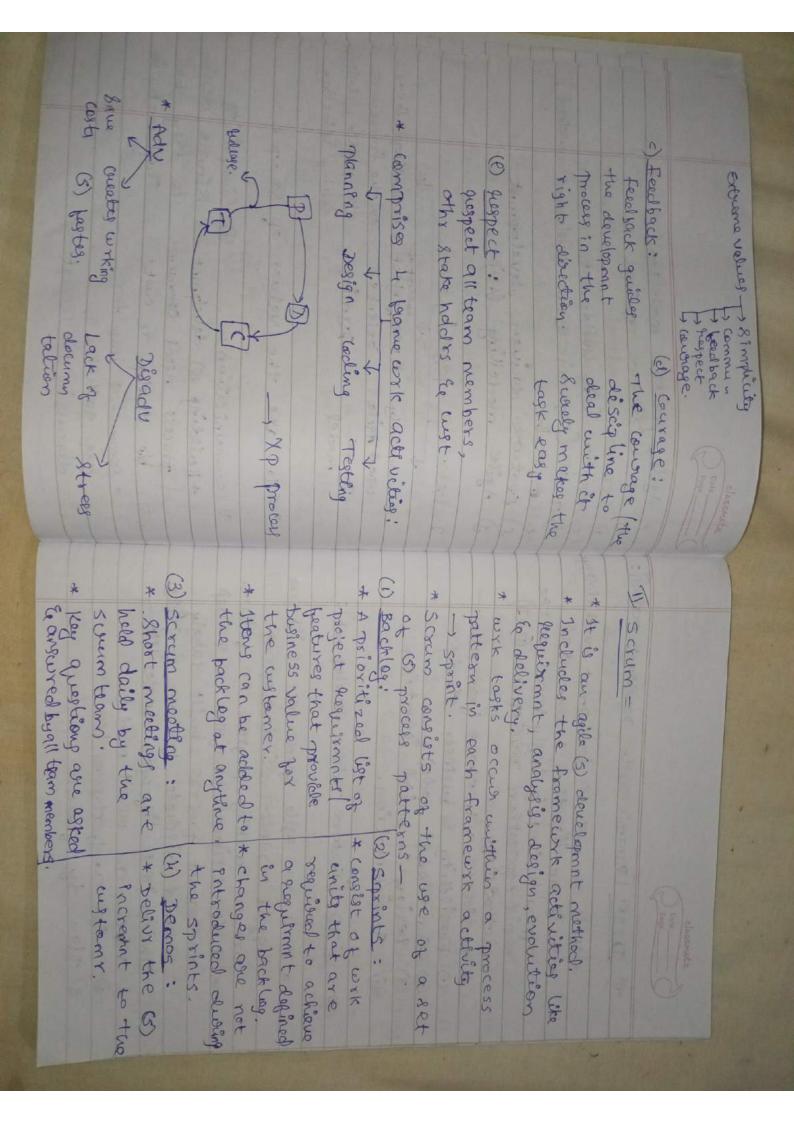








charact	
O Bush	
-) Agile Model:	Agile
The same of	b) S crum e proming)
models medels with four on process	X O Adaptive (6) development
100	x e) Constall Byramic System development number
If break the product in small	f) frature deriver elevelopment
* furry ctenction involved -	a) Agale mochelling. (AM)
planning, questionnot arealysis, scession,	I Extreme proming =
Coding, unit while the water to	concept of the local forms of the constant of
* Poplanning	cheel Agile oriented authoriments
	proming !
TI THE DOS OF GROWING	modely cooling & but ting.
T - Testing	* follow are the values of Ex. 7:
T R.A.	a) (amount other): (b) Simple design
Maria France (B)	
	* Commu & imp for cocle
THE IS NOT	or But Bornson
	chis crafting the principle.



* It is an agile promework as its name Suggets organizes (5) devolopment around making progress on feeture. It is designed to bellow a 5-step alreadopment process, built langly abroand olisociets beature projects. The profect life cycle landes like—) refletep an overall model 3) plan by heature.	The DSDM [Desamic system Development making]: * It is an agille (5) development making): * It is an agille (5) development on the mapping in the language partition on the mapping on the making is build etayation (3) Design se build etayation (4) Implementation. * It is an agille (5) development making): * It is an agille (
kno exse	# It is an agicle framework based on april mizing charter & eithmately delivering any who the product needs. LSD Etean (5) development time & besources, eliminating charter & eithmately decumentary beyond on strong activity & as a visit becumentation, & can reduce costs. before to all devalopment mistakes

