Module - IV Protection, security & 05 case studies se curity =) protection * A nothed used in as that manages threato that handles tweats within the system to from outside of the sytm maintain the proper to maintain -(7-ing of the systm * control the access to provide the systm The tystm regources acces to legitimate users only. * Handles quite simple Handles more queries comple concerns * Focuses on internal focuses on ex threats threats of the systm to the systm. * more convoluted Suple queries queries are handled arie handled. * Encryption Economisthenauthorization to cation mechanismo mechaniques & are used implemented.

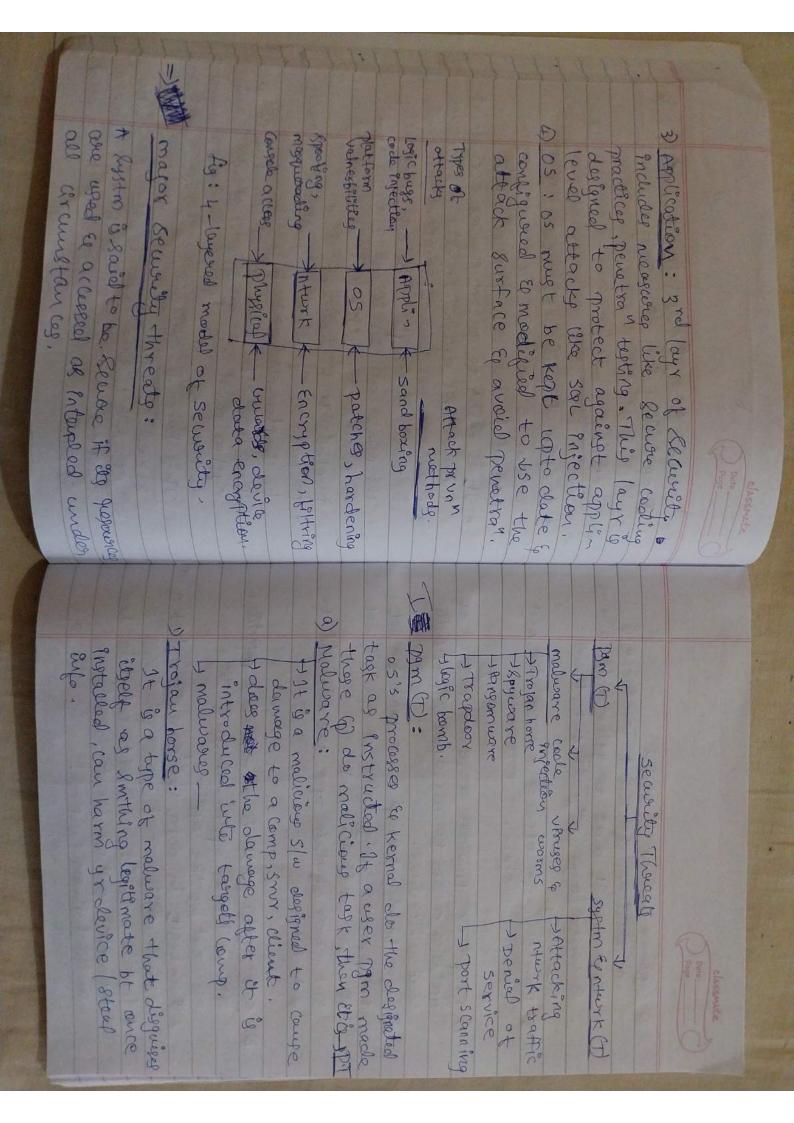
>> Protection:

* refers to mechanism for controlling
the access of pryms

* used-

Ping Chus There ner subject of laluper obj. An alless merit can be imagined as a sight of each (p) executing in the Access materine is used to define the motection mechanism -1 - lax array of celly, cuith I row It is a security model of find state at the politics hiddley errors. to improve reliebelity by destecting in comp systm. It is represented by merit active by a kystm to ensure that each promo component to provide a mechanism for enforcement Adry - Se with & mechanism - Protect Access control materix: tig: 4.C. mtrix Ruse, W R W FULL FULL complimented in 3 ways RE Drinter systm must be physically secused against entry by introduced companse expressional against this layr is designed to the backs to nturk.

Suprement unauthorized access to nturk. => Security Proms: be implemented at 4 lavely. * Attackrs use several standard methods Thusical: The sites containing the comp Brapalcility into for Subj & Pretods to be someone else. in which I postiapret in a common The nest common is marquerading -It is easier to protect against accordental miguse than against mall closer misuse intended under all circumstrices resources are used & accorred as in their attempts to breach Recurity A Rystm & said to be secure it its breach masserne mo



accountability. Injection sometimes had to complete host takovs. It an also strat data of any lete host authors authors when control.	of code injection: It is a malitimous sinjection of code into an applin, which is then executed by the applin.	sack chases of the type are difficult to	5) Logic bomb: A trap door may be let	9) Trapolery provides a secret nuther of gaining a reef to an applion of online	A voviation affortive trojan horse of sprume. It aims to gathe info allow a person organiz name through their their whomever their surfaces are considered out using a surface attacks are considered out	Date Chascoute
-> Cryptography = fourses on ending & decoding added so that it can be expented only by the intended recipient of pata is trasported by the intended recipient of pher (crypto systm (mathematical ad)	a prym attack & vice versa. * Common types -> port scanning * Deming of service (bus) * Attacking neurk traffic.	* sometimes a le is used to jounch	I System & netwyle (T):	that enter networks by Exploiting vulnorbileting, moving quickly from 1	a occurred who an applia evaluated code without validating it first. c) viruses & worms: * A Cemp virus & a prom made of medicious wade that can propate itself from attackes itself to a last, they we infected.	Chusanuta. Physics

for encripting mags. Jammathic crypton also - secret key cryptoness secret key to encrypt of the cryptoness. The crypt a mag. Authorizan - Authorizan - Authorizan - Machinetter of users here a user's here and horitary are reasonable one makes here a user's house was familiary and any mediation. The truth of authorizan and the reasonable reasonabl	Date
Adjunter Who over the determined by - A deserts fluctery can be determined by - whit he is - whit he has - whit he knows - whit he has - whit he is - whit he has - whit he is - whit he is -	

Haditory "	* typest chemical b. devices to physical	* used to manage.	· quelies on the unique his worked to humin	c) Biometrics:	· adv-) not vulnerable to replay attacks	- As e strong (A) Travioling much bother	provide a mechanism for logging on to	- alig - y vul nevalable ty predictability	They are typically created by the user	O Date Classanate
In 2005, Notice introducted 17th a with	In 2003, motorola introchical 1st linux Shased all Thin.	microsoft's 1st windows CE 8mxtphns	Palm pilot loss personal digital assistat was introduced with as mob as. Rossos - Rumbian harman 1st modern meh	. 1993-99 - apple lounched newton os,	I tilephony & Intrnt Conun.	a St combines the beauty of comp & hand	eg - + Symbian os inhuos, RIN'S Blackberry,	The same kind of she as the	w Mobile os:	chesente

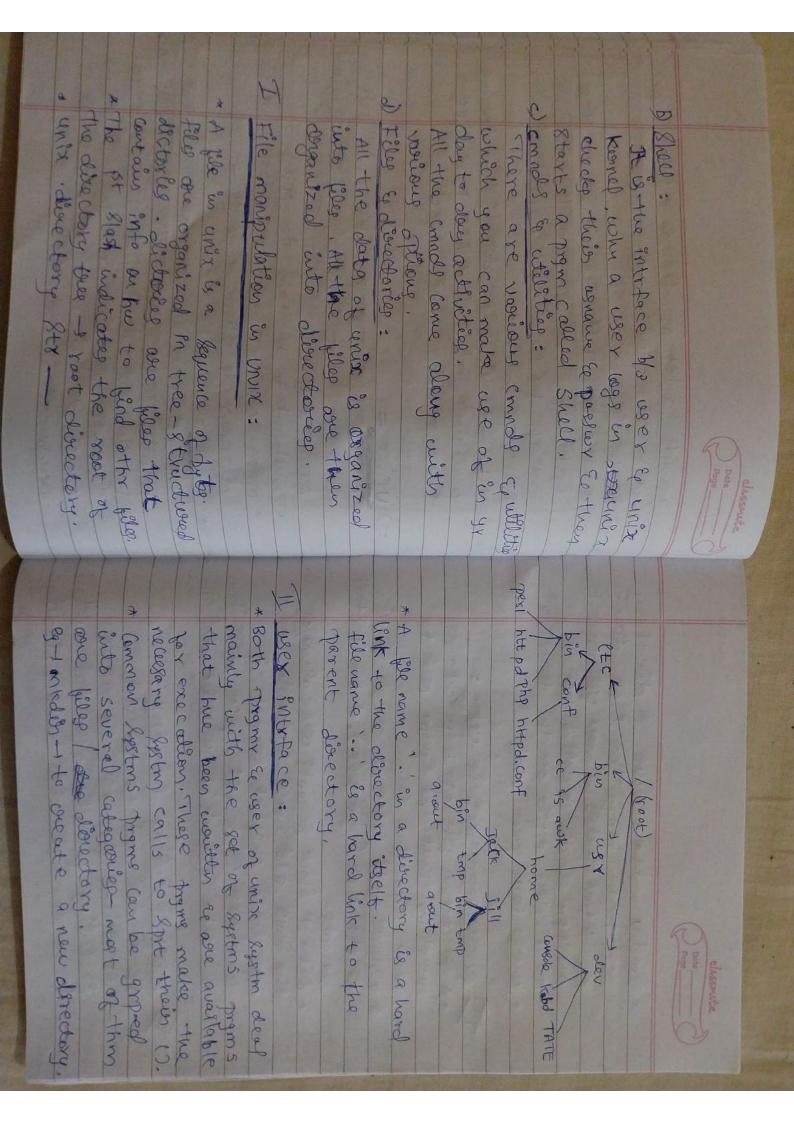
provide high-level of integran with commun-Based on java law.

S) wholever is resigned for pocket to c 4) Sumbjon of: 3) Pos: developmed by apple for the use I popular mob os: 2) 36 ch beyon & . Developuel by Research microsoft. ste is not available for any other mos & smit mas is developed by straward os: It is a make of based our Unux It is benefical for corporate users handled devices In notice (RIM) . Designed for bikberry 20105 - In 2014, microsoft released whole os was alevalared by gasgle in 2008 kennel & apr-source s/w. Android In 2015, gauge to released Android on hallings ! Teatures * Recuerate - as keeps the objection of Jugues * Devila management - Allocates & deallocates My mangment - It is the management of executed, it has to be prout to main my. file management - keep rec of the 86thy
El loc of files, Altocates Endeadle-cates THOUSENEW LOSSOCIAL System the as decided him sewho a b) data amm" - mob They are now heavily the reguercy, managing cally user can manage mell use the cho multiple cally (confine cally) to concrat cally who more than 160 runs on the Access to Intent browsing mob melesites. used ber data comme with sms mag en front phy. safe & Recove through authors on of mob as:

	4:4 -> kit kat advaled search capeleility. 10 8prt for totaldada phy op spirt 10 8 new promises ion control.	· multitogking, solven capture, etc. * was long— 1:5 — cupcase — soft responsed	· me ging - sms & mme are available. · me browsy - ~ based on opn-source Blink.	Alliance and a mainly used to usuate The find cools can through other large can be used to find the life while the life meaths actable, opining source, etc.	mos devices such as tolelet comp in smything & several by Groundle Glat & oHA (of hands)	
C Tangent Co	An ancher - st is the heart of An An) ancher - device dedurs pomen	Audio Diplay keypad bluetooth camora USB with	Freelype unaphig [Hardware Abstraction layr(HAL).	contact movides of chimity to a packy view system suspense we sadow notesting weekly to hatter who is have is have a specific core is have less as a secretary for the source opening sources.	Architecture: System Apps System calendr camera contacts.	Chassade

provides the Resulter with the hip of which we can beat e posticular as for 2) Nathur Weresies - movide a 8 port for In checke Thus April 5 like ~ prformance. July takes the generaled Java de lives & combaines thin into 1/none delvik sucutable (soon) files. male (for brows spit), spite (for by),
male (for playing & rearding andie &
when), SSL (security technology), Dun & like Jun bt it is optimized for mob devices konnel, tuese ese nettue l'éprosies like It use my se provides fast Hove those one one Ubrosies ElDUM alestra " lay by the olevice hardway & resource accept. provide an maygnat, mly maygnat, device managny se other components of An arche-= x inv (= 6) HAL - provides on electran ley v b/3-the * It is a family of multitusking, multiuser * main concept that united all the versions 5) System Appl keynel is the lawst lays of 05 & accounts for bardware devices & plata storage.

It allocates time & mly to promes & handle the file store formur. the remaindr of 8/w stack. core apps for email, some ones with a set of - Sylver H - of of KIND for AT ENT UNIX. provide a lot of cless to Enterfaces for layboard & the succes (An) appli- elevelopment.



Interactive of severy of has a withit large non quicate lower provided withit The Drock management in UNDE: everything that the Ryston needs to the same add space fusually wand-only in the data 4 stack sign reading in a add space of the diff for the data 4 stack sign reading wood-only - into tat (Pgm Code), data of Stock know allowt a G. RES MANTE to display of our existing file. of prom ounter or new file that is user lan run cat cel -1 to change the Crat dise. ander - to remove a disuction =) windows NI: * The design sould to New Technology

* The design sould that successft has

stated for NT granula extractional

portalished, heliabething, compatibility, promnce

se intractional sprt. multiprocessing & multi-uses os produced by microsofts. & ordinary user (P) s hue the priorities a 15t word ion of windows NT & windows NT3.1 arths in the Kernel. * Older une system used a 1-sec quantum applie that follows the position to unicode is NTS native charcoole although to UNICODE is NTS native charcoole although to UNICODE chars by conviting them, Than my Lysten (b). Re sheduling is a crombished by the

