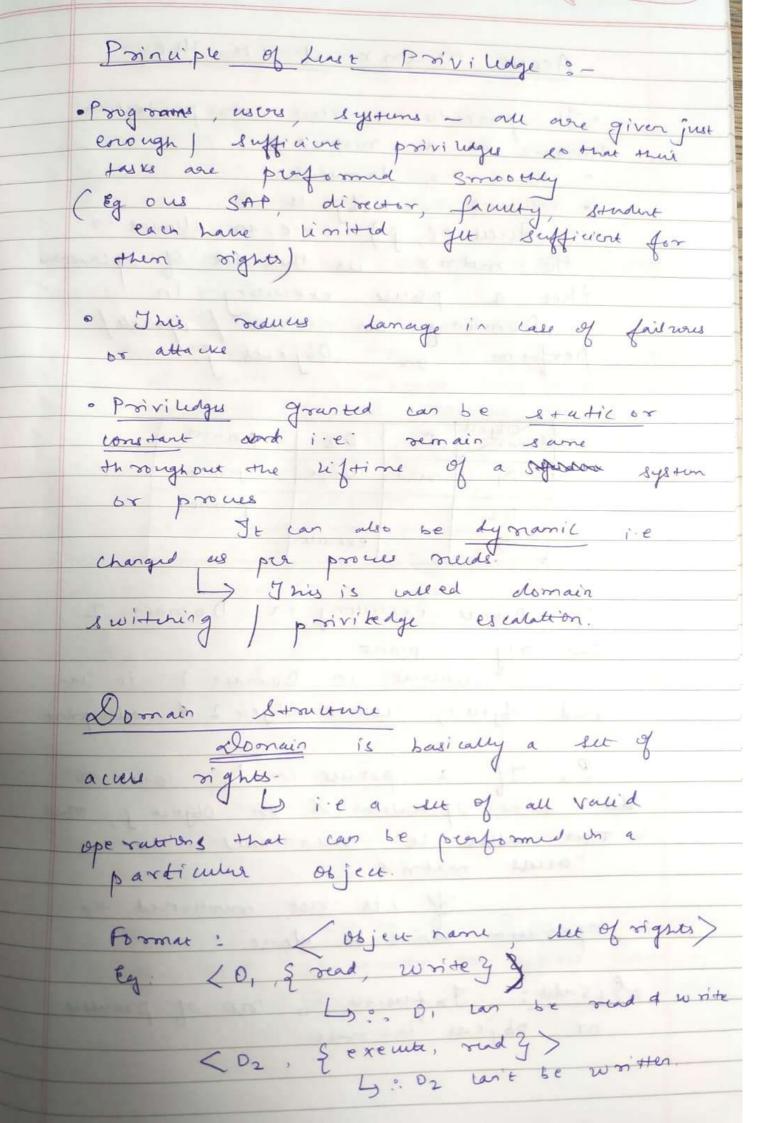
The same of the sa	Trotection of Sewsity
	1 80 YE CULTURE
	in single system
Muti	ple procusus coexist in single system
but of	hu mult not mot
addru	us or activities or resource
	The state of the s
Ponto	ction Problem Goals
1 80016	ction Problem Goals
	11 The Al Dieute
· Comput	urs consists of a collection of Objects
Which	can be his or
o Each	Object has a wigue name of is
acieso	object has a wrigue name of is and through well defined set of operation
· Pml	letting Pombling tolune that each
01	tection Problem ensures that each
OSJEH	is accent correctly of only those prouses which are allowed / rized to do so
by	those proude which are according
autro	sorized to do so
	Proto 111 ion
Contrac	n'es of violation
- Care fo	5 10
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-> 13 mu	n of confiduration of unautro vized red
-) <sup>11</sup>	" Availability -> " write
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-> XU	use as service of Pourson of lightimate use
	use
Conti	dustianity Integraty Availability  (1A triad)
	7, 17,
	CIA AMAD



## Accus matrix dits use

e It provides a view into protection
islingnio as a matrix.
· Rows = domains
· Columns = Afrects
· Columns = Objects.  · Access (i, j) i.e an element in  the matrix is the set of operations
the matrix is the set of operations
that a procee executing in
Domain : can invoke / sperate/
Domain ; can invoke / operate/ perform on Objects ;

domain	0,	02	printer
Dı	round	wn'te	print
02			print
_ b 3		execute	

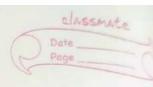
can only print

where in Domain 1 it un rend Object, zvrite Object 2 d also print.

o, If a prome in Di want to do some operation X on Object, thus this must be mustioned in the accel matrix

Disnow; Intruee of promuse

Sounity Probun .-· Semmity is maintained if ruowius are used and accessed as intended under all circumstance. bruin security - Attack a Thorat is a potential sewnity Violation · Attacks are accidental francicious d are every to be protected from Malicions / Planned Attacks are most dangerous. Security Violation -> masquerading | Acting | Protending to be someone use to escalar priviledges. -> it : breaches authenticated - Replay Attack - Rund exact / soudefield mus agis - man - in - the - middle Attack -Sitting on data frow of acting us serous procuives s Susion hijacking - Intercept an Ustasiished connection to bypass from



Security Masure Levels Joseph cost of penutration to

deter most introduces.

Searchty must occur at 4 lunch

physical: Data untres, serves etc

tumes: Avoid phisting

To DS: Protection mechanism/

debugging

-> N/W: Interapt communication

must be avoided

Hopefully you know what is a trime, nome, frewall.

education of the second of