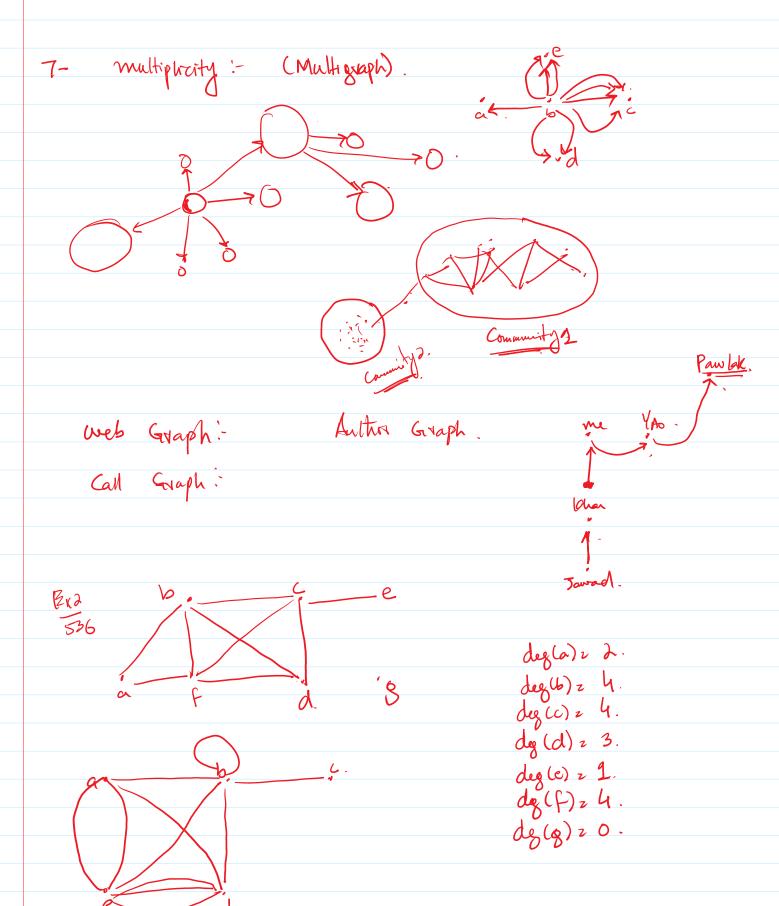
lecture 22.	GRAPH.
G= (V, E).	V = Set of Vertices.
	B. J. Set of Edge
Each edge	13 associated with a Single of two Vertices.
1- Simple Graph: 0 1	No loops. No multicages.
2- Multi Graph : A Gr	
3- Pseudograph: 0M	ay have bops. ossibly multi edges.
4- Undirected: 1 Edges with no direction. (Undirected)	
	— (Undructed) — Directed)
5- Simple Directed	Caraph.
1 C .	2) Rolges are directed ->. (3) No hops. (3) No multiedges in the same direction.
	3 No multiedges in the same direction.
10 .	
6- Mixed Grash:	A Graph with both directed and



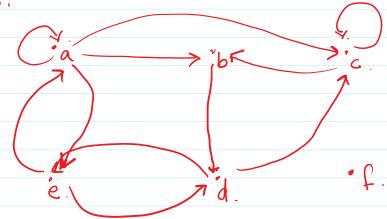
Handshalong theorem:

de = ENdeg(v)

Digrees of Directed Graph:

Judgree deg (v)

outdonce des (a).



Directed Graph.

Z deg(u) = Z deg(u) = [É].

Special types of Cataphy.

1- Complete Graphi-







Cycles. n7,3.

1,2,3, -- n.

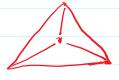
(1,2) (2,3),(3,4). --- (n-lun), (n,1).



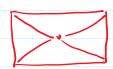




WHEEL:



 ω_{3}



wy



W5



W4

