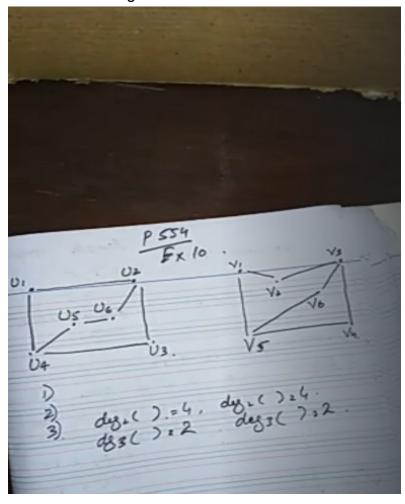
Discrete Lecture #22

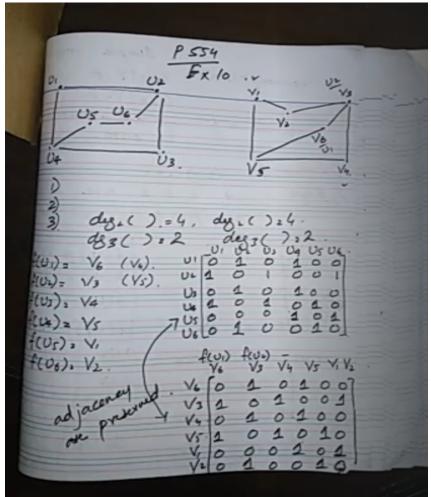
- Isomorphism (simple graph)
 - o G1 = (V1, E1)
 - o G2 = (V2 , E2)
 - Two graphs are isomorphic if and only if the conditions are met, isomorphism is usually checked between two graphs and the terms for the two vertices are G1 and G2.
 - 1) If number of vertices in G1 are same as G2
 - 2) if number of edges in G1 are same as G2
 - 3) if number of same degree vertices are same



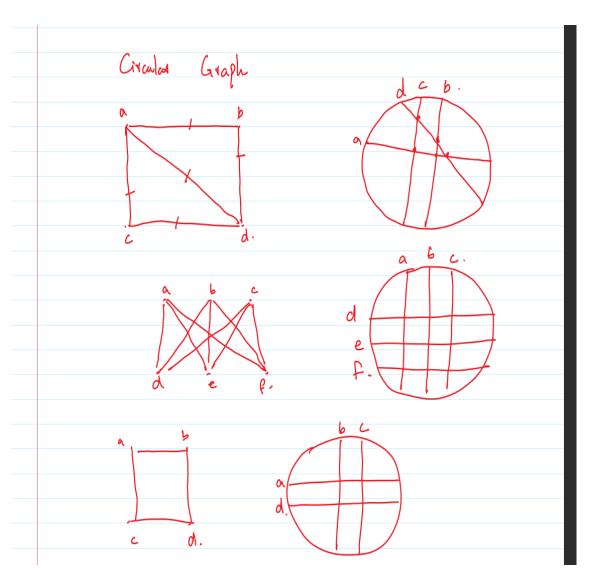
- 4) we check the degree of adjacent vertices
- 5) Assignment of vertices
 - Check the adjacent degree of the vertices

 If you are assignment a vertex A with adjacent degree of 1 with adjacent vertices in G1 then you must assign it to a vertex with the same features in G2

■ 6) Adjacency matrix of both graphs G1 and G2



- ADJACENCY MATIX WILL BE THE SAME
- ADJ.MATRIX OF G2 WILL ALWAYS BE A SYMMETRIC MATRIX
- Circular Graph :



Representing the graph in circles

- o Each vertex is a chord
- o Each cord intersecting other cord means they have a path