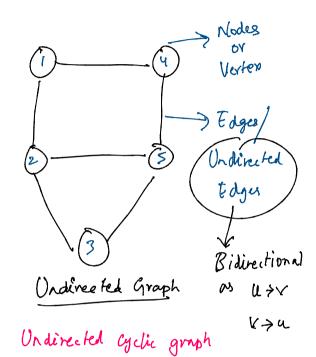
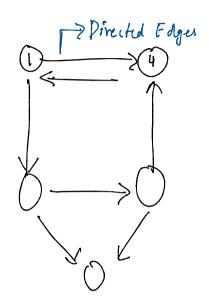
Types of Graph :



Nodes/Vertex (N/V) => 5

Edges => 6

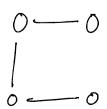


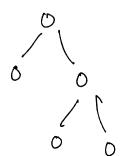
Directed Graph

>> where all the edges are

directed.

* Cycles in a Gmph:





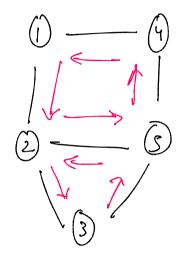
Binary Tree and Grouph

o as it to llow all rules.

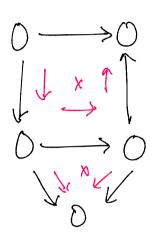
Cycle: - If you're starting from an node you reach back to that node.

- Start from a node and end at that node.

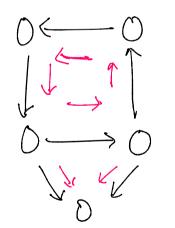
Undirected cyclic graph



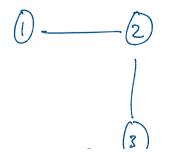
Acyclic Graph: No cycle graph.



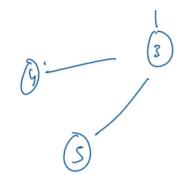
Directed any clic Graph (DAG)



+ Path: Contain a lot of nodes and each of them are reachable.

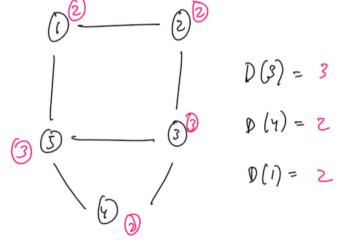


1 2 3 5 V



1 3 3 2 1 X

- * A node coult appear twice in a path.
- + Adjacent nodes must have an edge between them.
- that total e.g. 123 which is attached to '3' so degree of '3' is 3.



Degree of Ordirected Groups: Number of edges that are attached to it.

Property: of Degree:

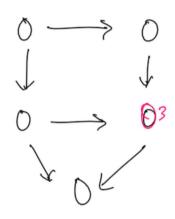
Total Degree of a graph = 2 x Edges /

Total degree = 2+2+3+3+2=12Edges = 6

T.D = 2x F

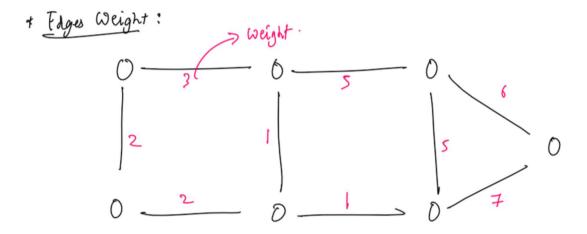
Degree of Directed Graph:

- * In degree (node): No of incoming edges
 - * Outdegree (node): No of outdegree edges



Indegree (3) = 2

Outagree (3) = [



If the weight is not assigned then we assign wit weight =>1.