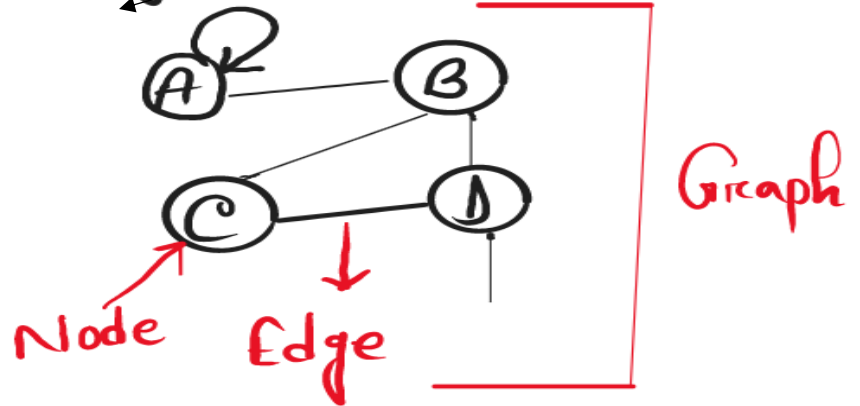


1:2->Introduction to Graph, Node, Edge

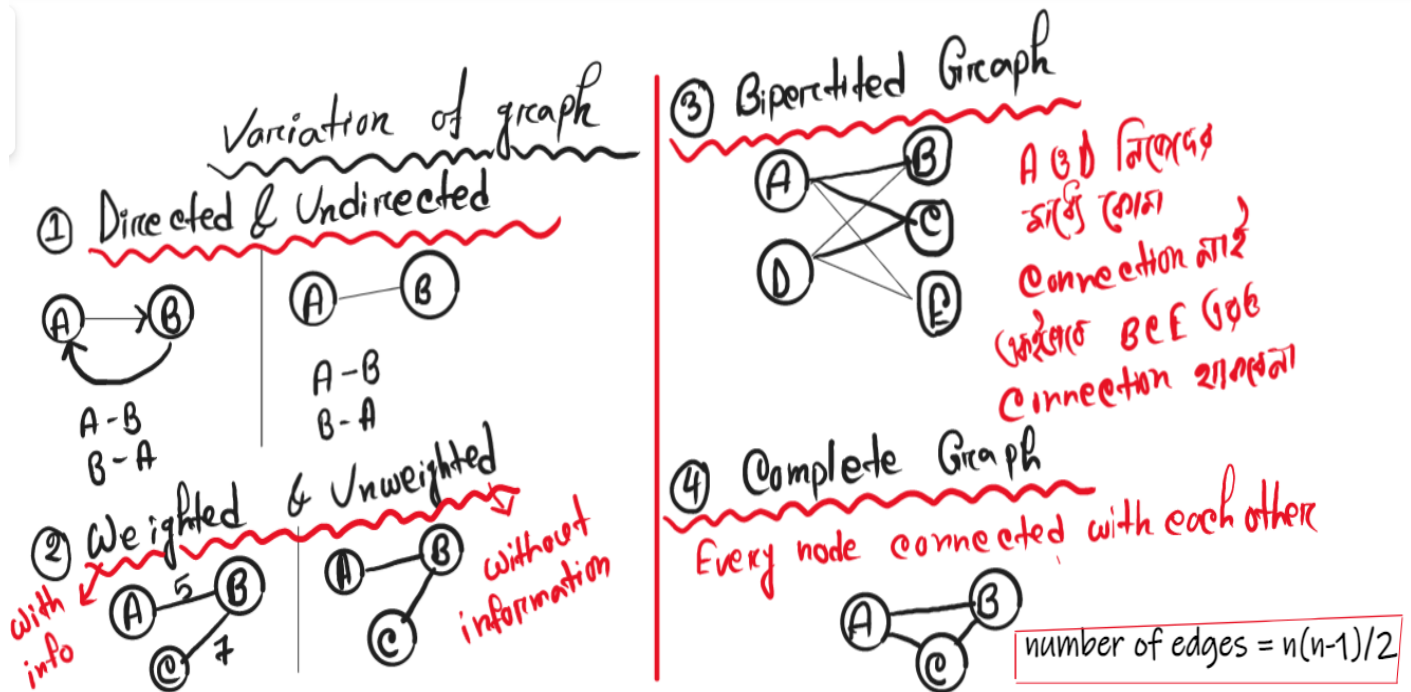
Self Loop

Fundamental things in graph

- (i) Node
- (ii) Edge
- (iii) Graph



1:3->Variation of Graph



1:4->Variation of Graph(Part:2->Tree)

Variation of Graph (Tree)

- i) No - Cycle
- ii) Has Unique path
- iii) Connected

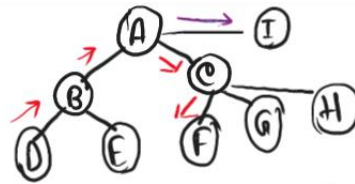
Example:



→ Cycle গঠে tree নয়



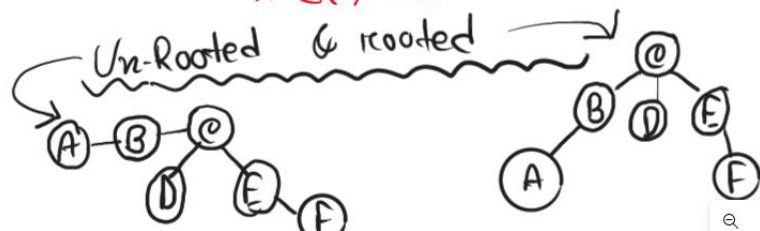
→ Connected নয়
গঠে tree নয়



$D \rightarrow B \rightarrow A \rightarrow C \rightarrow F$ → tree

$D \rightarrow B \rightarrow A \rightarrow I \rightarrow A \rightarrow C \rightarrow F$ → tree

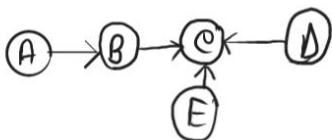
সমস্ত Unique path গঠে
A থেকে গ্রাফে গিয়েছে।



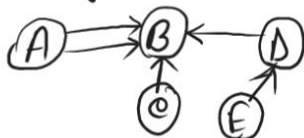
1.5->Variation of Graph(DAG,DCG,Multi Edge,Self Loop)

⑥ DAG

Directed Acyclic Graph

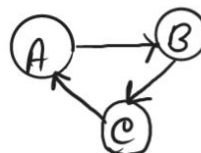


⑧ Multi edge



⑦ DCG

Directed Cyclic Graph



Undirected
↓
Bi-directional

Self Loop

$A \rightarrow A$

