Data Science &

AI

Artificial Intelligence

**Searching Algorithms** 

Lecture - 01

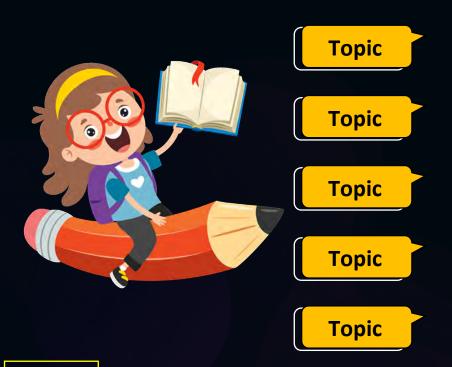


## **Recap of Previous Lecture**







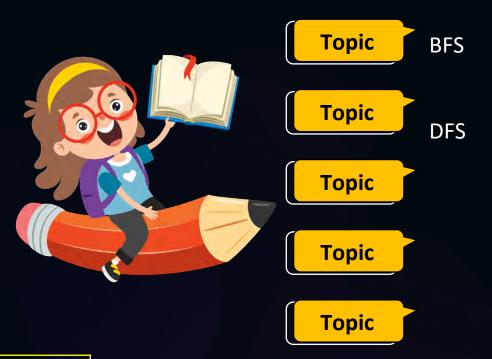


## **Topics to be Covered**



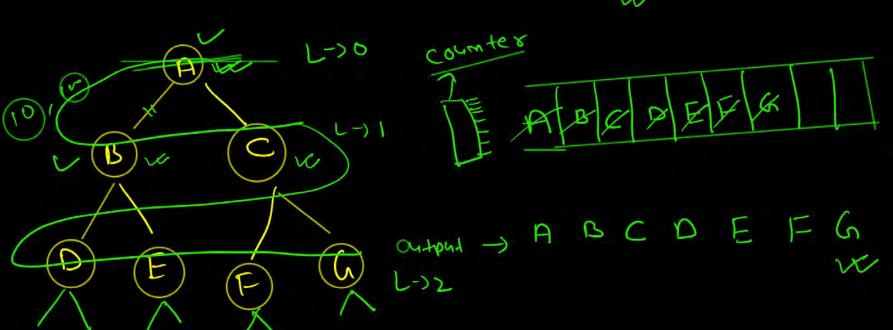


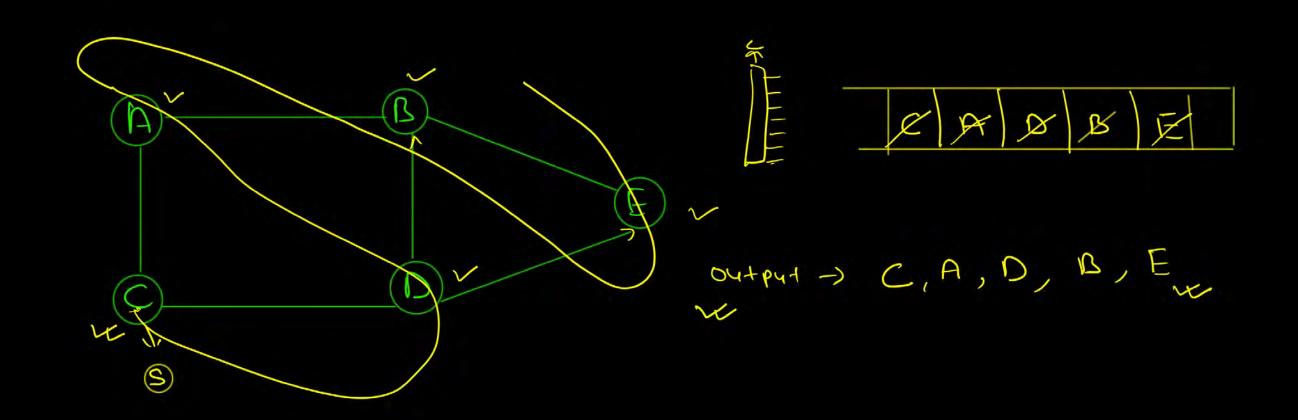


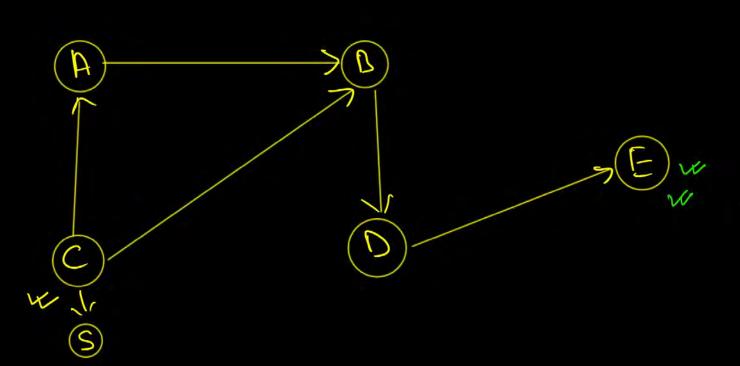


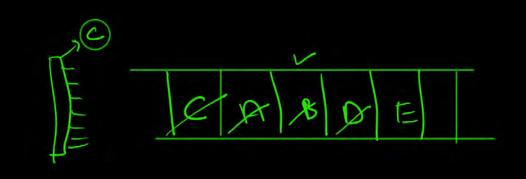
Slide 3

BFS ( Dreadth First Search)





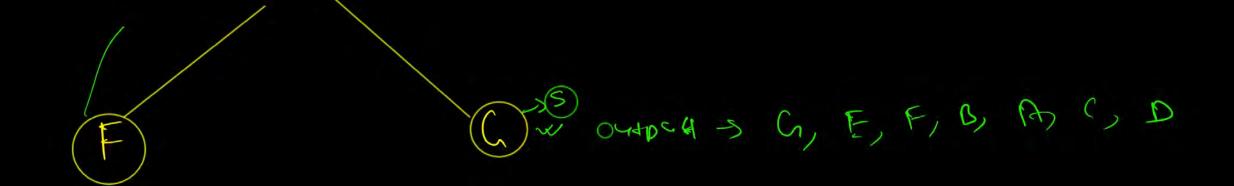




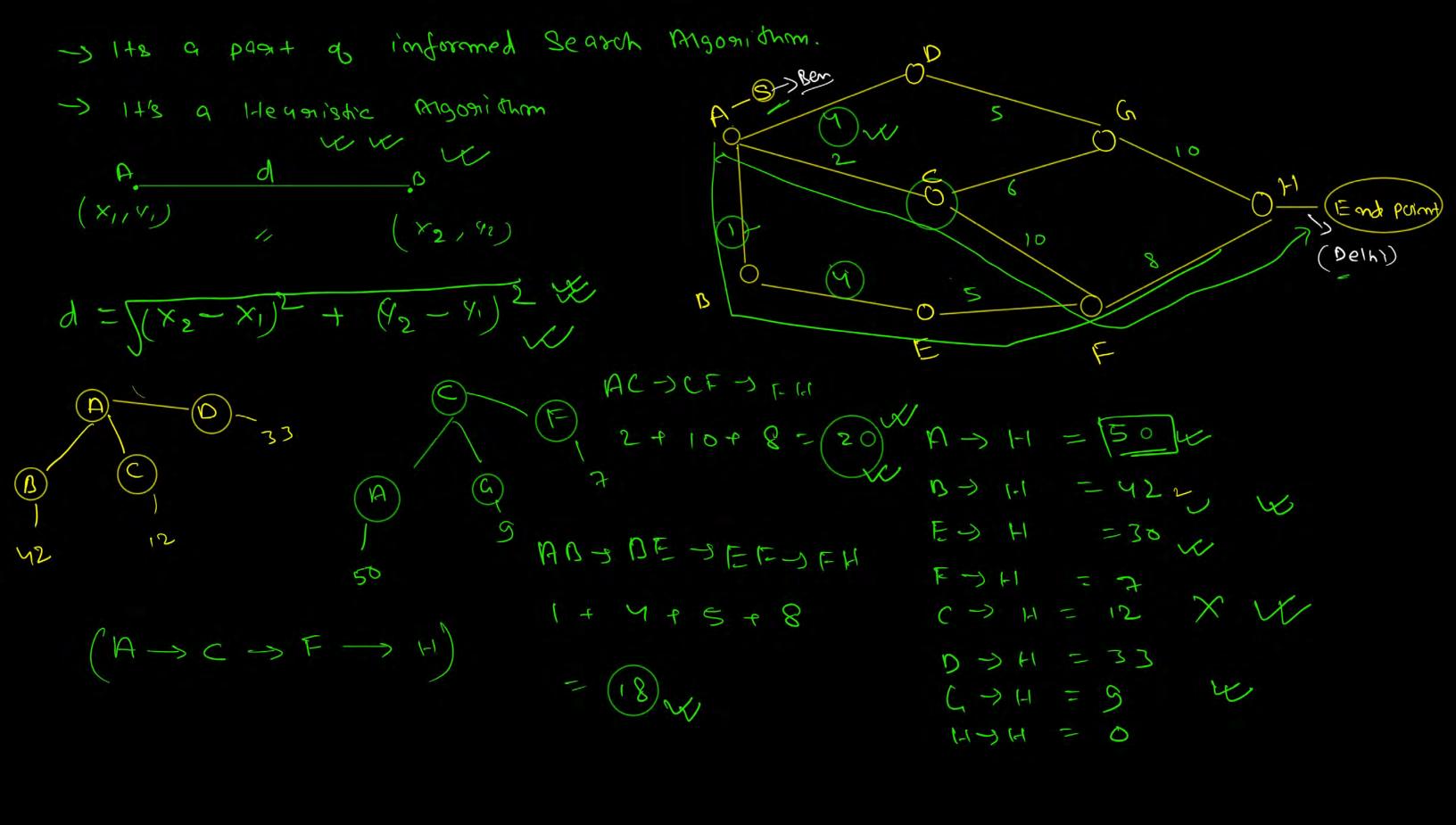
OUTPUT -> C, A, B, D, E w

- 1) Shoontest Parn Finding ->
- 2 web Crawling.
- 3 Social media
- 9 Puzzle Solviong.
- 5) Metwoonk Broadcashing.

DFS (Depon Fignet Search) 43 -> Backtracking W -> Basic OS Stack- (LIFO) OUTPUT > A, B, D, E, C, F, 6 w DF3 -) Stack. D OUTPUT -> A, B, E, F, G, D, CW

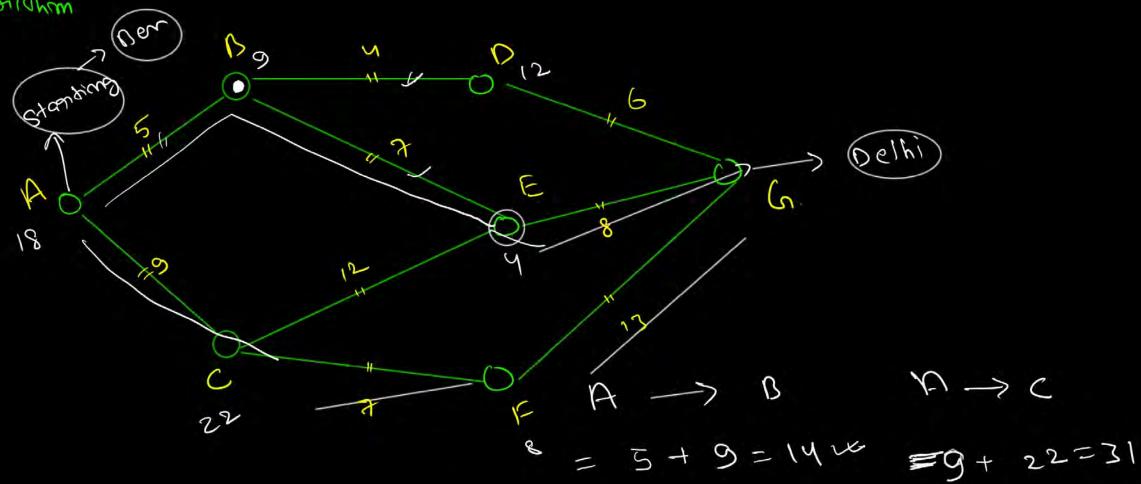


- 1) Maje Solving.
- 2 Salving Sudoky.
- 3 An Games.
- (9) Symbolic mathematics.



O intormed Search algorithm

( path Cost) Estimated cost



$$\left( \begin{array}{ccc} \mathcal{A} \rightarrow \mathcal{A} \rightarrow \mathcal{A} \rightarrow \mathcal{A} \end{array} \right)$$



## 2 mins Summary



Topic

Topic

Topic

Topic

Topic



## THANK - YOU