G.H. Roisoni College of Engg, Nagpus

2020-2021 ODD TERM

CAE-2 EXAMENATION FOR SPLIT-II COURSES

WINTER-2020

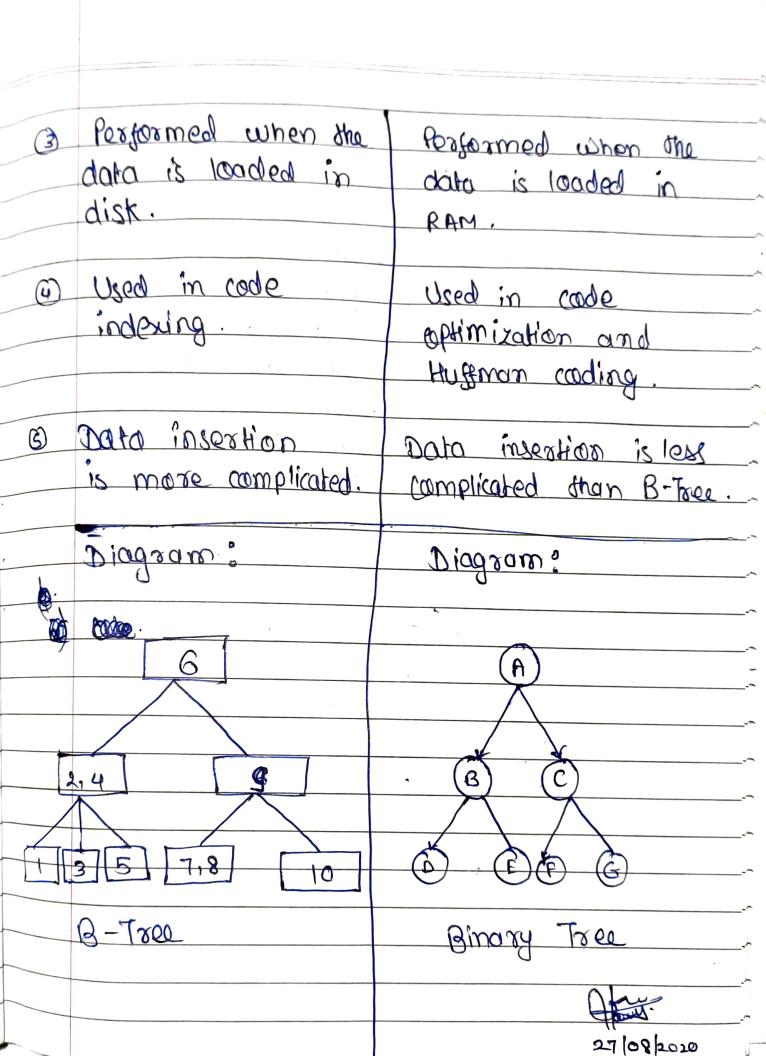
DEPARTMENT: ARTIFICIAL INTELLIGENCE
SEN/SEC: 3/A DATE: 27/08/2020
SUBJECT: DOOLDATA STRUCTURE & ALGORITHMS
ROLLNO: 58
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REG. NO.: 2019 A AIF 1117028

a. B-Trol Binary Tree

B-Tree is known Binary tree is a as self-balancing tree tree structure which can have at sorted in inorder most two pointers traversal. For its child nade.

Hove maximum Have maximum two child nodes.

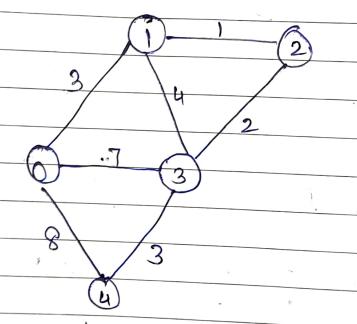
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i.) Weight od Goaph:

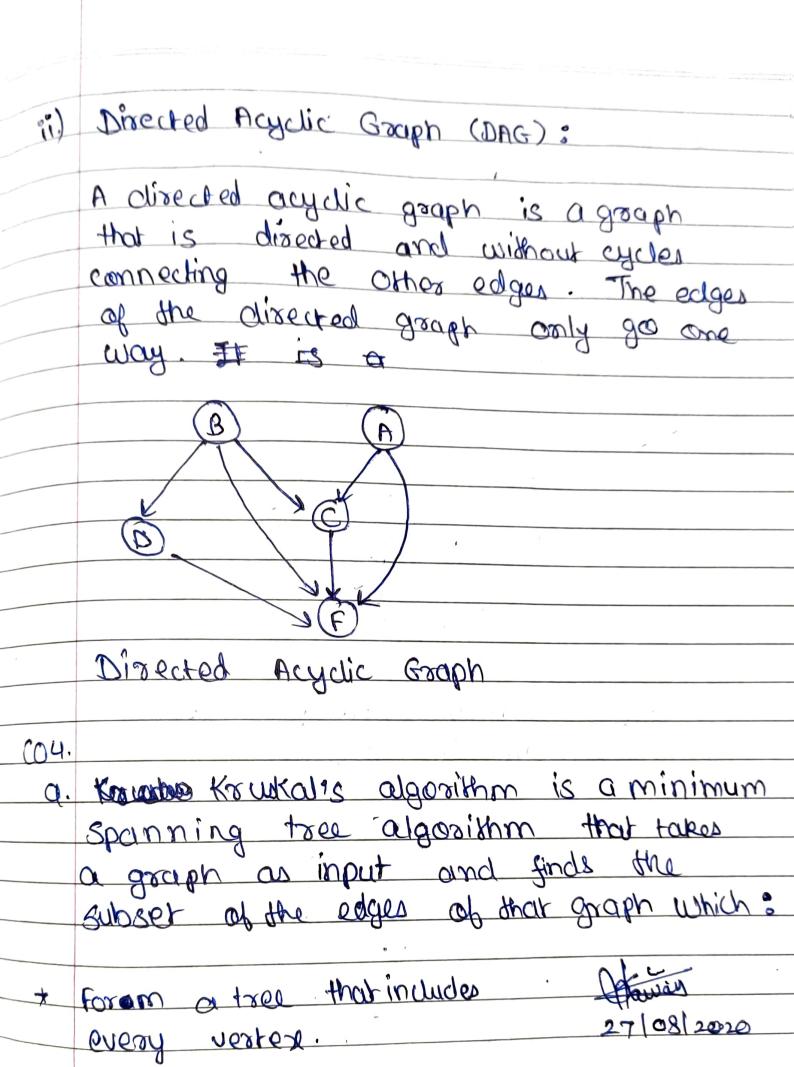
A weighted graph refers to a simple graph that how weighted edges. These weighted edges can be used to compute the shortest path.

weighted graphs may be either directed or undirected. The weight of an edge is often called as "coost" of the edge.



Weighted Graphs

David



how the minimum sum of weights among all the trees that can be formed from the grouph. Given Eraphi 14 15 Step 1: Remove all paralled edges and self loops 6 14 15

Step 2: Soot all the edges in nondecreasing order. Weight Edge 2-6 4-9 9  $C_{\mathbf{Q}}$ 5-6 10 3-4 14 1-6 13 2-4 Step 3: Pick the smallest edge and check is it sooms a cycle, is there is a cycle then discord it and pick next smallest edge Final Graphs