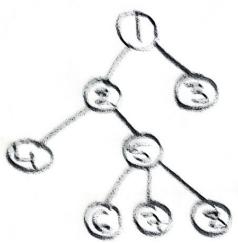
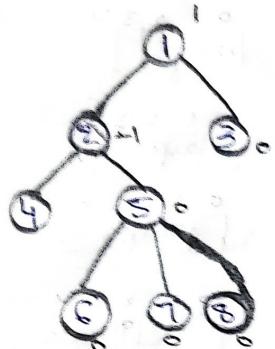


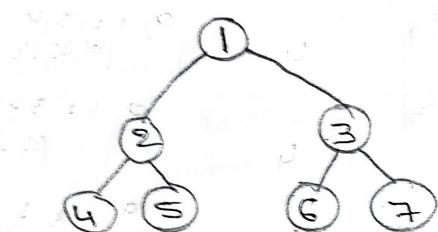
1 Calculate the "Balance factor" using AVL tree.



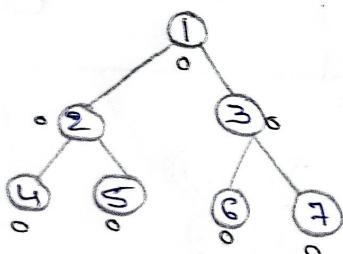
A, Balance factor = Height |L| - Height |R|.



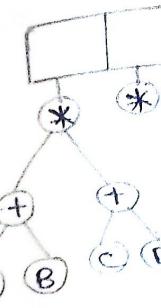
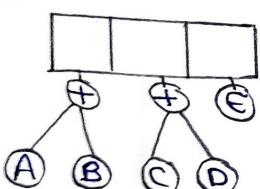
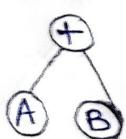
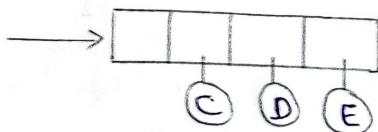
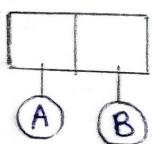
2 Balance factor using AVL Method.



A, Balance factor = Height |L| - Height |R|.



3) Draw the concept map of Binary tree.



N. Rastogi

192124083

CSA0369 - Data
structure

DVOW

express

802

PC

(23) 2009

(32) 2009

(1) 2009

(1) 2009

(1) 2009

(1) 2009

(1) 2009

(1) 2009

(1) 2009

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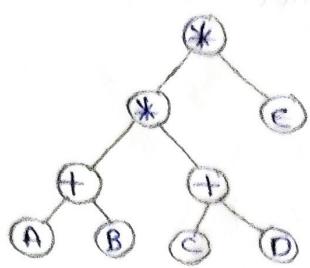
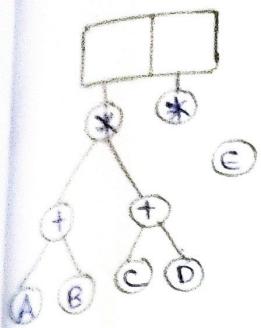
(1) 2009

(1) 2009

(1) 2009

(1) 2009

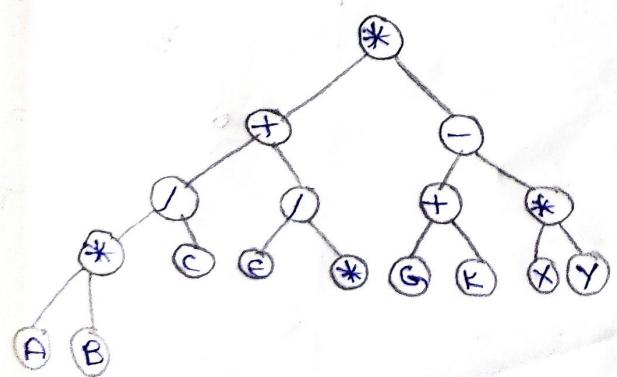
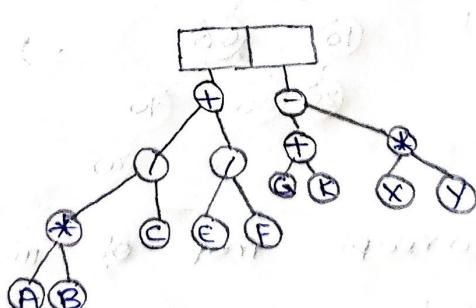
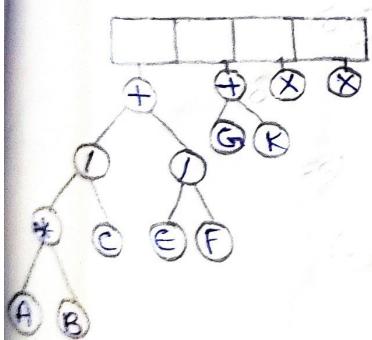
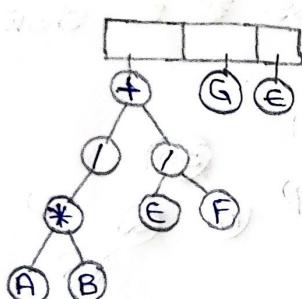
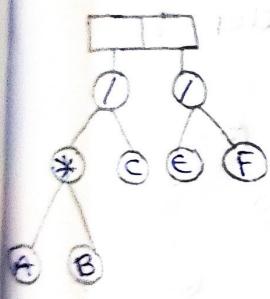
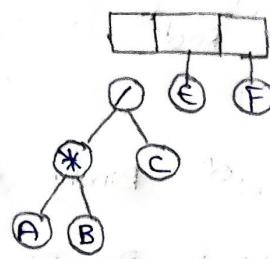
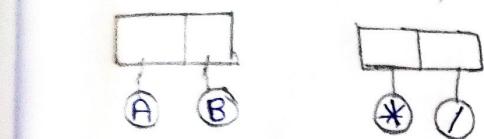
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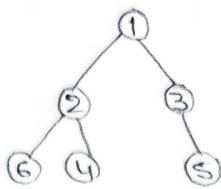
4. Draw the concept map of Binary tree for the expression.

~~Ex-~~ Postfix notation

AB* C / EF + / GIK * xy - *



5. Draw the concept map of in-order and pre-order and post traversal.



In-order :- left - Root - Right

62 4 1 3 5

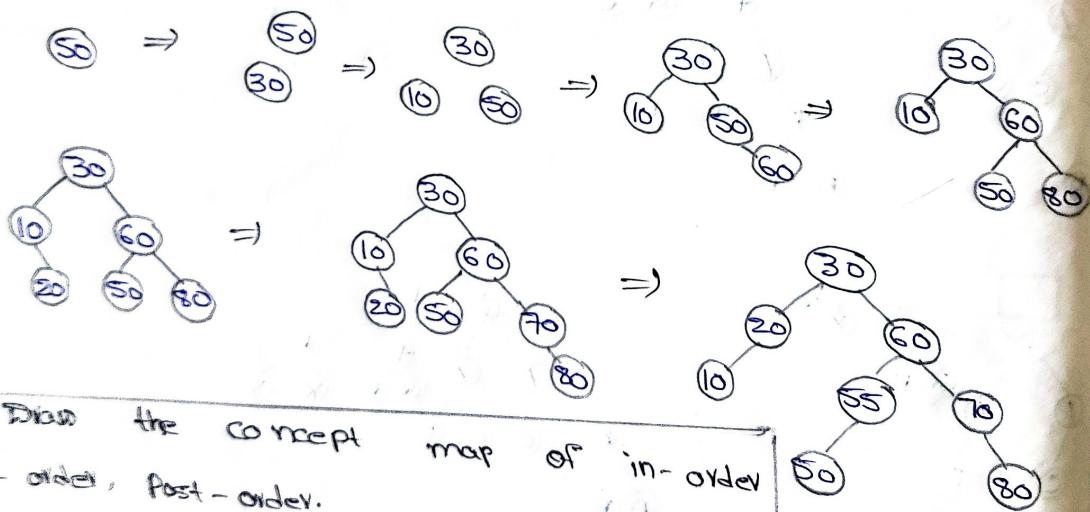
Pre-order :- Root - left - Right

1 2 6 4 3 5

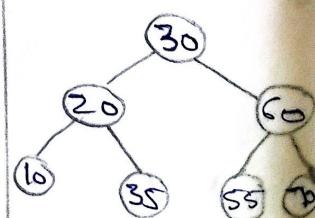
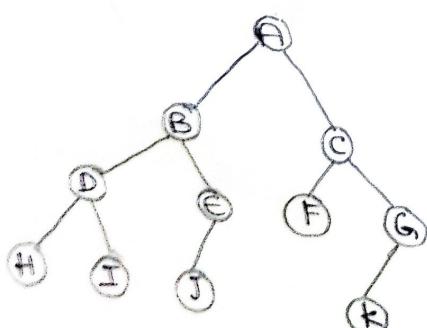
Post-order :- Left - Right - Root

6 4 2 5 3 1

6. Draw the concept map of Binary search tree by Insertions & deletions of 50, 30, 10, 60, 80, 20, 70, 55, 35, 5, show step-wise deletion of 5, 80, 50.



7. Draw the concept map of in-order Pre-order, Post-order.



In-order :- Left - Root - Right

HDI BTE AFKCG

Type order:- Root - Left - Right

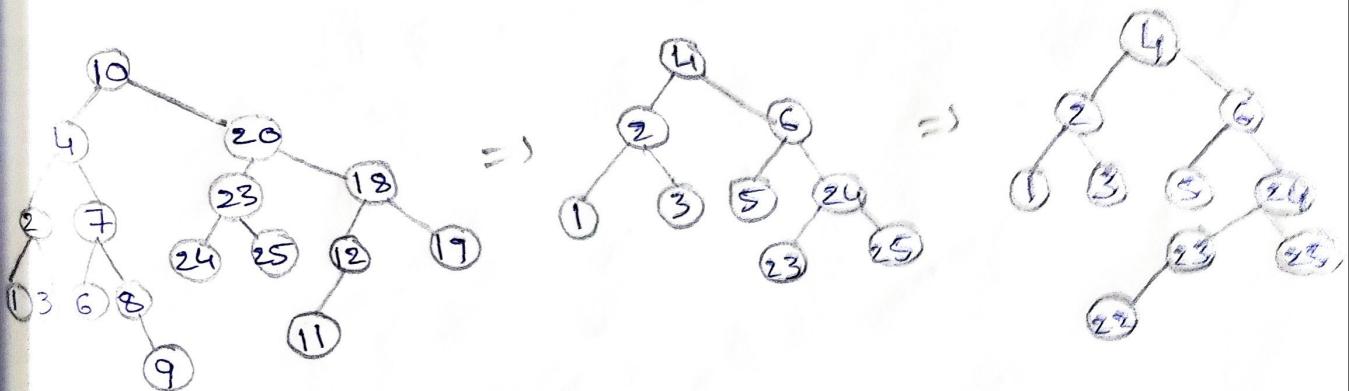
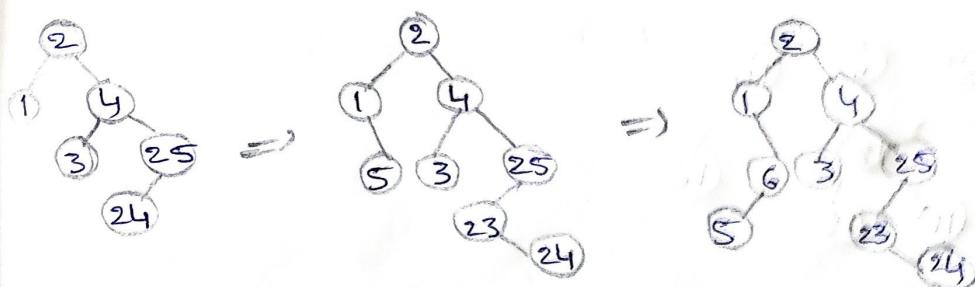
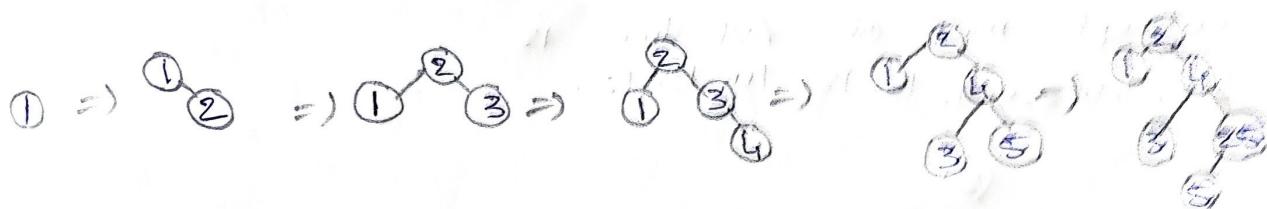
ABDHJIECFKG

Post-order :- Left - Right - Root

HJDJEB FKCGA.

8) Draw the concept map of Binary tree

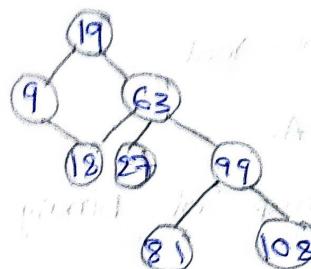
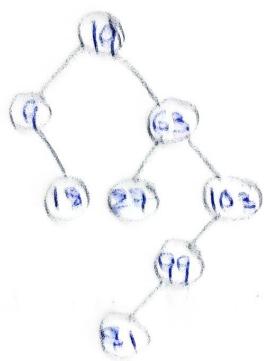
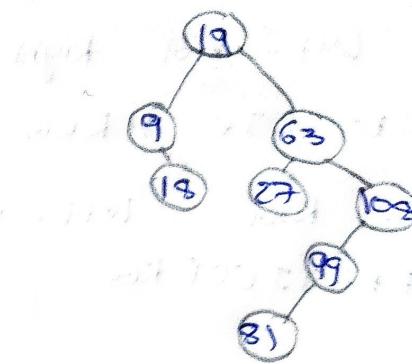
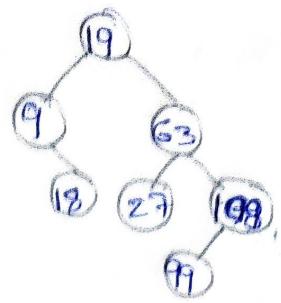
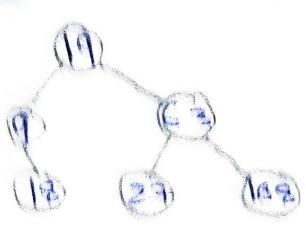
1, 2, 3, 4, 5, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30.



Concept map of AVL tree for the following:

Q. Draw the concept map followed by BTO in water cycle.
Ans. 3, 9, 10, 2, 7, 18, 103, 99, 81





b) concept map of AVL tree is
312, 14, 5, 6, 7, 16, 15, 14, 13, 12.

