



Ex1: As  $T$  is a tree with 5 vertices then it has 4 edges. Also  $\sum_{x \in V(T)} \deg x = 2|E(T)|$

So  $1+1+1+2+d = 2 \times 4 \Leftrightarrow 5+d=8$   
 we obtain  $d=3$ .

Ex2:

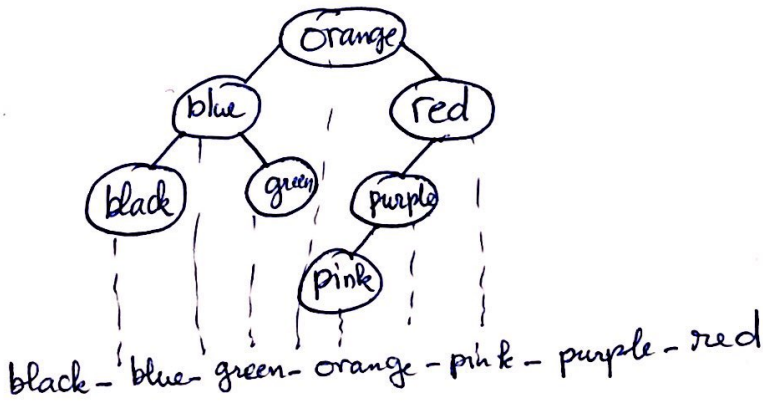
(a) The Post fix of  $7/1/+|2/\wedge/7/4/-|3//+$  is  $(65)$

(b) The prefix of  $+*32/42$  is  $(8)$

Ex3

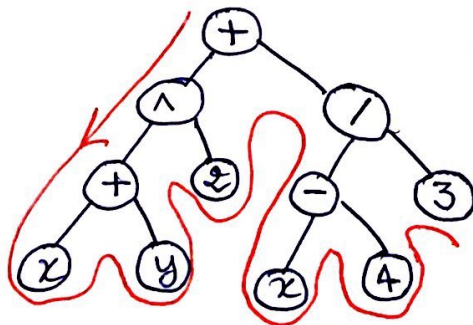
- Preorder:  $a|b|c|d|e|f|g|h|i|j|l|m$
- Inorder:  $d|c|e|b|a|f|k|h|g|i|l|j|m$
- Postorder:  $d|e|c|b|f|k|h|i|l|m|j|g|a$

Ex4



Ex5

(a)



(b) Prefix:  $+/\wedge/+|x|y|2|/|-|x|4|3$

Postfix:  $x|y|+|2|\wedge|x|4|-|3|/|+$