Making a tree using post-order & In-order.

Given :- Post-order → used for taking roots
DCBEFA

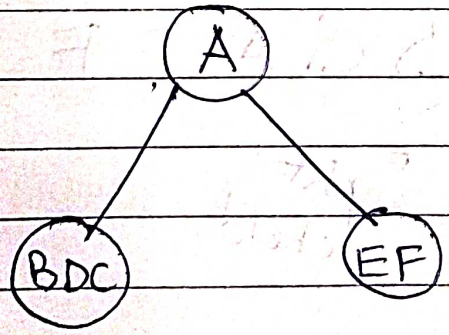
In-order → used for analysing the child nodes
BDCAEF

S-1

Soln The right most node in the post-order is our root or the origination of the tree.
So,

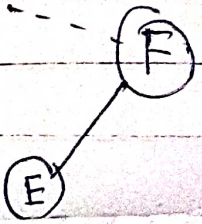
(A) → root of a tree

Step-2 abb A ke child nodes keliye in-order dekhengye BDCA EF
Left child, Right child

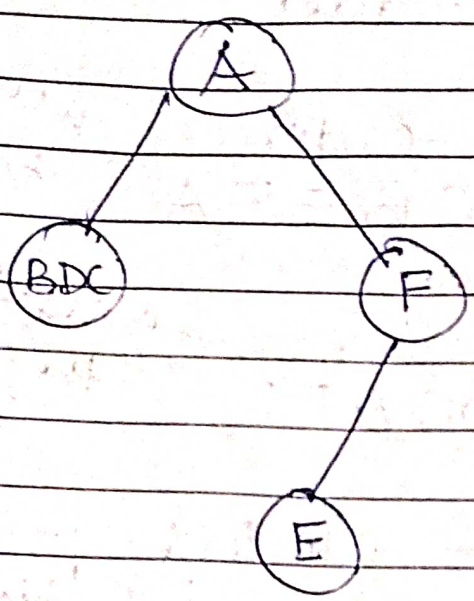


Step-1 Abb ham 1 sub-tree ke roots keliye firse Post-order dekhengye R → Left
DCBE(F)A
next root

Step-2 aur F ke child ke liye ham in-order dekhengye BDCAE(F)
left child



This completes our right portion of the tree



Step1 Abb first hum R → L bade in post-order

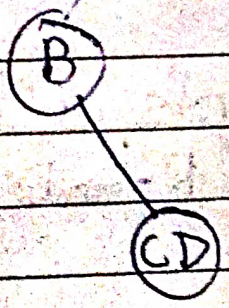
DC(B)(E)F A

root — form the right part

St-2 Fir hamne in-order dekha B ke child ke liye.

B D C A E F

right child



S-1 first aagye bade in post-order from right → left

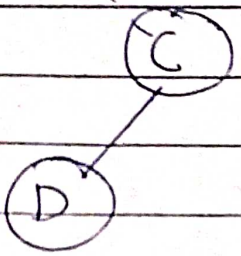
D C B E F A

next root

S-2 Aur C ke child dekha in the in-order

B D C A E F

left



So, our complete tree will be