Nama   : Annisa Rusydina Sabila
NIM   : 19051397004
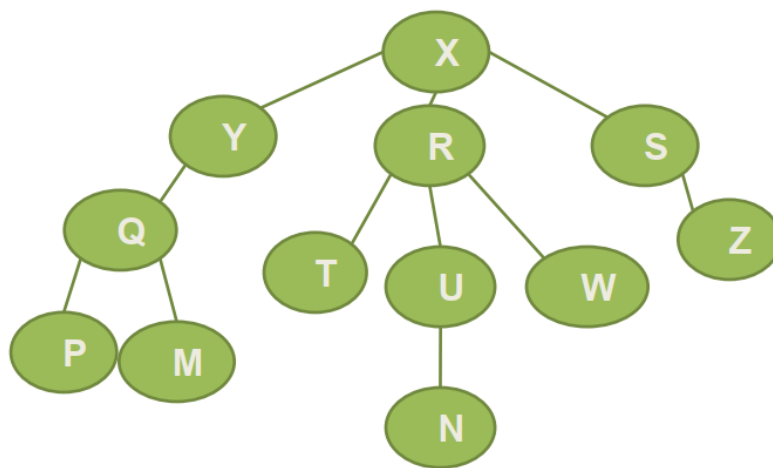Kelas   : D4 Manajemen Informatika 2019 A

STRUKTUR DATA
Tree and Binary Tree

1. TREE

Latihan

JAWAB :

Ancestor (N)   = U, R, X
Descendant (Y) = Q
Parent (Z)   = S
Child (Q)   = P, M
Sibling (U)   = T, W
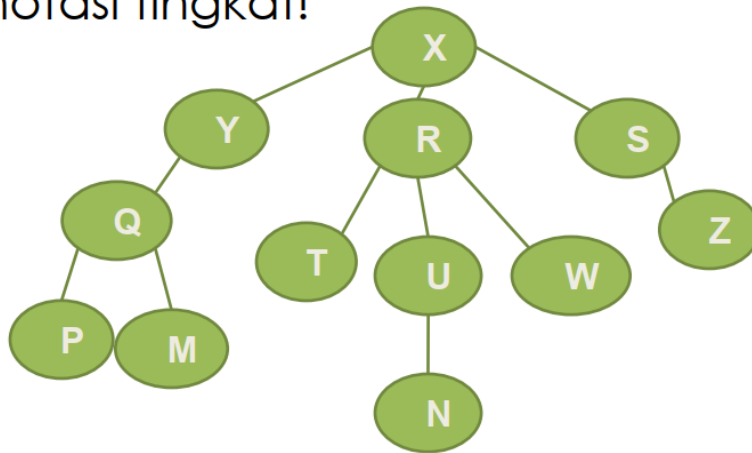Size   = 12
Height   = 4
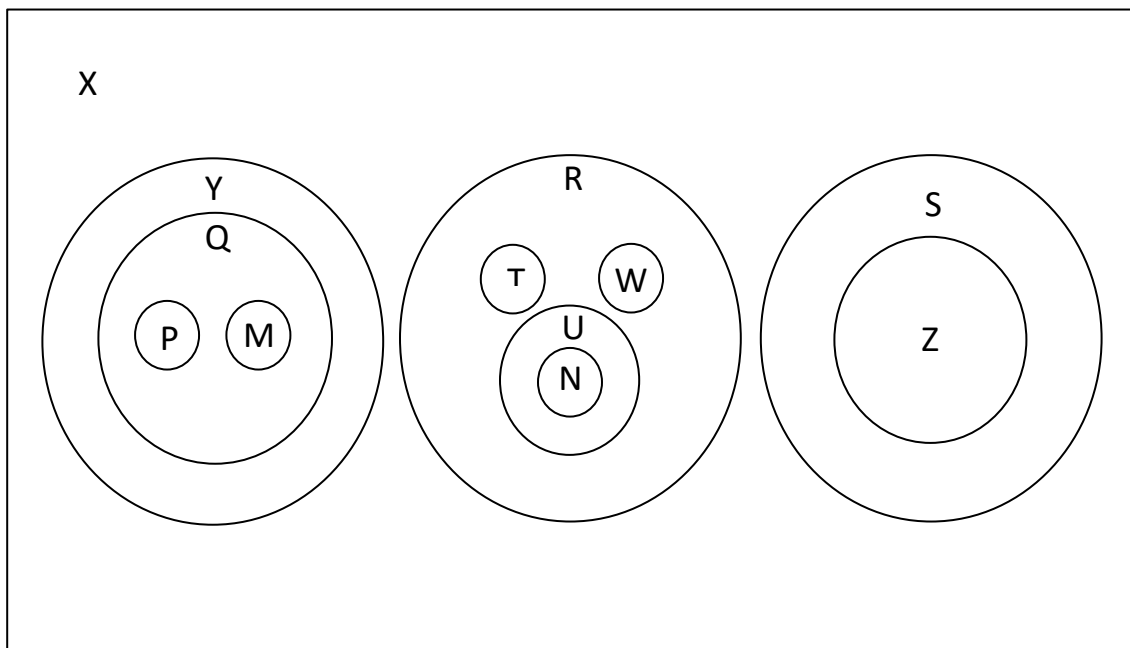Root   = X
Leaf   = P, M, N, Z
Degree (R)   = 3

Latihan

- Buat diagram venn, notasi kurung dan notasi tingkat!

JAWAB :

DIAGRAM VENN

NOTASI KURUNG

(X (Y (Q (P, M)), R (T, W, U (N)), S (Z)))

NOTASI TINGKAT

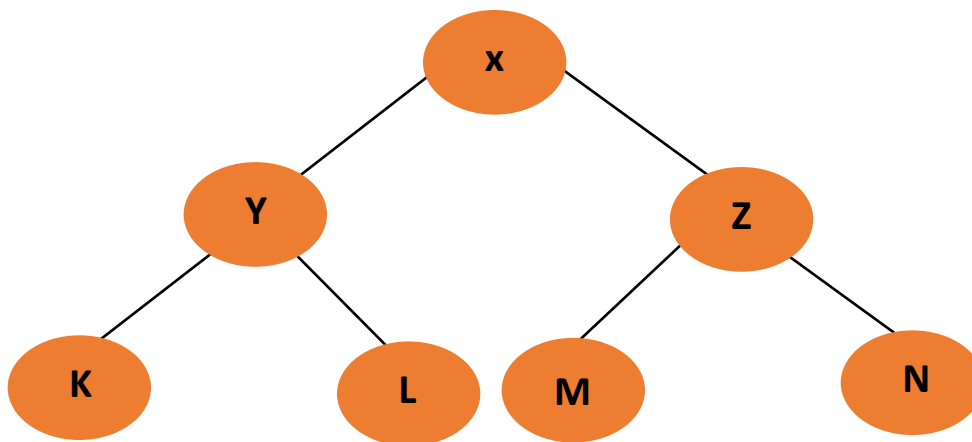|				
X				
	Y			
		Q		
			P	
			M	
	R			
		T		
		W		
		U		
			N	
	S			
		Z		

2. BINARY TREE

Latihan

- Gambarkan pohon biner dengan ketentuan sbb :
  - Ancestor (M) = Z, X
  - Descendant (Y) = K, L
  - Parent (N) = Z
  - Child (Z) = M, N
  - Sibling (Y) = Z
  - Size = 7
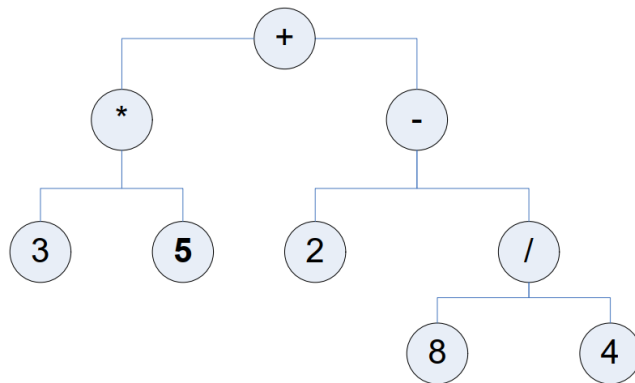 - Height = 3
  - Root = X
  - Leaf = K, L, M, N

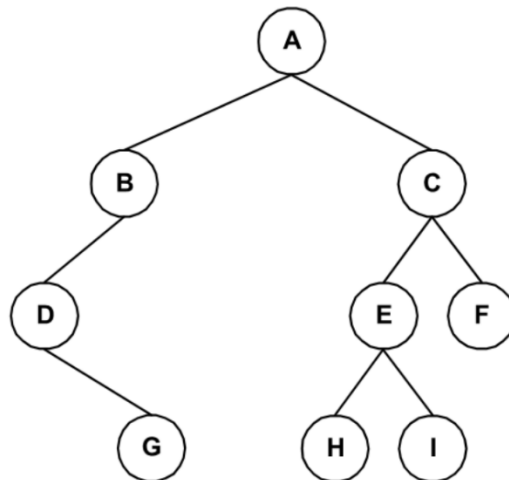**JAWAB :**

Latihan

- Telusuri pohon biner berikut dengan menggunakan metode pre, in, post !

Latihan 1

- Preorder Traversal   = + * 3 5 − 2 / 8 4
- Inorder Traversal   = 3 * 5 + 2 8 4 / -
- Postorder Traversal   = 3 5 * 8 4 2 / - +

Latihan 2

- Preorder Traversal   = A B D G C E F H I
- Inorder Traversal   = D A G B E H I F C
- Postorder Traversal   = G D B H I E F C A