

AlgoritmaTraversal.py

```
1  import os
2  os.system('cls')
3
4  class Node:
5      def __init__(self, key):
6          self.kiriChild = None
7          self.kananChild = None
8          self.data = key
9
10 # Function untuk Inorder Traversal
11 def InorderTraversal(root):
12     if root:
13         InorderTraversal(root.kiriChild)
14         print(root.data, end=" ")
15         InorderTraversal(root.kananChild)
16
17 # Function untuk Preorder Traversal
18 def PreorderTraversal(root):
19     if root:
20         print(root.data, end=" ")
21         PreorderTraversal(root.kiriChild)
22         PreorderTraversal(root.kananChild)
23
24 # Function untuk Postorder Traversal
25 def PostorderTraversal(root):
26     if root:
27         PostorderTraversal(root.kiriChild)
28         PostorderTraversal(root.kananChild)
29         print(root.data, end=" ")
30
31 if __name__ == '__main__':
32     root = Node(1)
33     # Subpohon kiri
34     root.kiriChild = Node(2)
35     root.kiriChild.kiriChild = Node(4)
36     root.kiriChild.kananChild = Node(5)
37     root.kiriChild.kiriChild.kiriChild = Node(8)
38     # Subpohon kanan
39     root.kananChild = Node(3)
40     root.kananChild.kiriChild = Node(6)
41     root.kananChild.kananChild = Node(7)
42     root.kananChild.kiriChild.kiriChild = Node(9)
43     root.kananChild.kiriChild.kananChild = Node(10)
44
45     print("\nInorder Traversal of binary tree is")
46     InorderTraversal(root)
47     print()
48     print("\nPreorder Traversal of binary tree is")
49     PreorderTraversal(root)
50     print()
51     print("\nPostorder Traversal of binary tree is")
52     PostorderTraversal(root)
```