Day-17 : Binary Tree - 1

Problem 1,2,3: Given a Binary Tree. Find and print

1. the inorder traversal of Binary Tree.
2. the preorder traversal of Binary Tree
3. the postorder traversal of Binary Tree

```
class Node:
    def__init__(self, value):
        self.value = value
        self.left = None
        self.right = None


def inorder_traversal(node):
    if node:
        inorder_traversal(node.left)
        print(node.value, end=" ")
        inorder_traversal(node.right)


def preorder_traversal(node):
    if node:
        print(node.value, end=" ")
        preorder_traversal(node.left)
        preorder_traversal(node.right)


def postorder_traversal(node):
    if node:
        postorder_traversal(node.left)
```

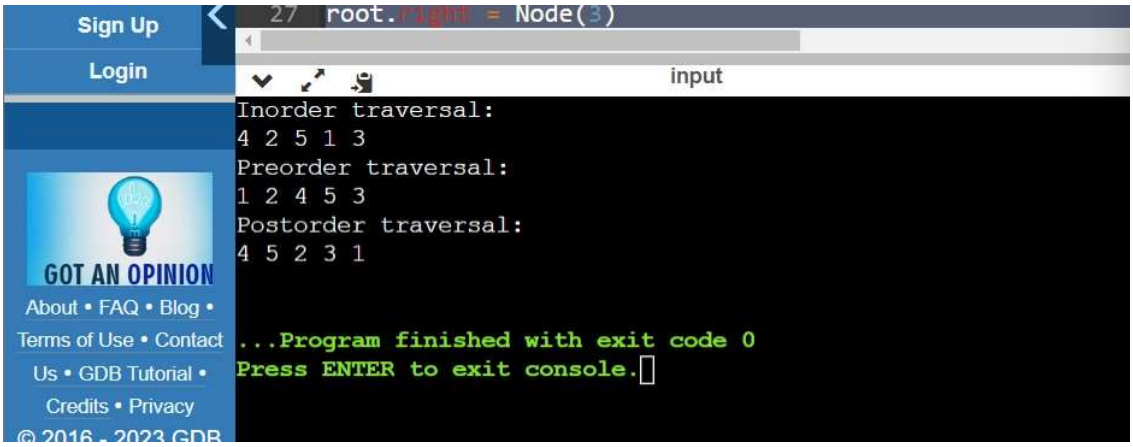
```
        postorder_traversal(node.right)
        print(node.value, end=" ")

root = Node(1)
root.left = Node(2)
root.right = Node(3)
root.left.left = Node(4)
root.left.right = Node(5)

print("Inorder traversal:")
inorder_traversal(root)
print()

print("Preorder traversal:")
preorder_traversal(root)
print()

print("Postorder traversal:")
postorder_traversal(root)
print()
```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27 root.right = Node(3)
input
Inorder traversal:
4 2 5 1 3
Preorder traversal:
1 2 4 5 3
Postorder traversal:
4 5 2 3 1
...Program finished with exit code 0
Press ENTER to exit console.