

Tree traversal in Python

```
class Node:
    def __init__(self, item):
        self.left = None
        self.right = None
        self.val = item

def inorder(root):

    if root:
        # Traverse left
        inorder(root.left)
        # Traverse root
        print(str(root.val) + "->", end="")
        # Traverse right
        inorder(root.right)

def postorder(root):

    if root:
        # Traverse left
        postorder(root.left)
        # Traverse right
        postorder(root.right)
        # Traverse root
        print(str(root.val) + "->", end="")

def preorder(root):
```

```
if root:
    # Traverse root
    print(str(root.val) + "->", end="")
    # Traverse left
    preorder(root.left)
    # Traverse right
    preorder(root.right)
```

```
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(root)
```

```
print("\nPreorder traversal ")
preorder(root)
```

```
print("\nPostorder traversal ")
postorder(root)
```