```
#include <iostream>
struct Node {
  int data;
  Node* left;
  Node* right;
  Node(int value) : data(value), left(nullptr), right(nullptr) {}
};
void preorderTraversal(Node* root) {
  if (root == nullptr) {
     return;
  }
  std::cout << root->data << " ";
  preorderTraversal(root->left);
  preorderTraversal(root->right);
}
void inorderTraversal(Node* root) {
  if (root == nullptr) {
     return;
  }
  inorderTraversal(root->left);
  std::cout << root->data << " ";
  inorderTraversal(root->right);
}
void postorderTraversal(Node* root) {
  if (root == nullptr) {
     return;
  }
  postorderTraversal(root->left);
  postorderTraversal(root->right);
```

```
std::cout << root->data << " ";
}
int main() {
  ساخت درخت زیر //
      1
       /\
  //
  // 2 3
  // /\
  // 4 5
  Node* root = new Node(1);
  root->left = new Node(2);
  root->right = new Node(3);
  root->left->left = new Node(4);
  root->left->right = new Node(5);
  std::cout << "Preorder Traversal: ";
  preorderTraversal(root);
  std::cout << std::endl;
  std::cout << "Inorder Traversal: ";
  inorderTraversal(root);
  std::cout << std::endl;
  std::cout << "Postorder Traversal: ";
  postorderTraversal(root);
  std::cout << std::endl;
  return 0;
}
```