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#include <stdio.h>
#include <stdlib.h>
struct node {
 int data;
 struct node *right_child;
 struct node *left_child;
};
struct node* new_node(int x){
 struct node *temp;
 temp = malloc(sizeof(struct node));
 temp->data = x;
 temp->left child = NULL;
 temp->right child = NULL;
 return temp;
/*To create a new node*/
struct node* insert(struct node * root, int x){
 if (root == NULL)
  return new_node(x);
 else if (x > root->data)
  root->right_child = insert(root->right_child, x);
  root -> left_child = insert(root->left_child, x);
 return root;
/*function to traverse the nodes of binary tree in preorder*/
void traversePreorder(struct node* root)
{
  if (root == NULL)
    return;
  printf(" %d ", root->data);
  traversePreorder(root->left_child);
  traversePreorder(root->right_child);
}
/*function to traverse the nodes of binary tree in Inorder*/
void traverselnorder(struct node* root)
{
  if (root == NULL)
    return;
  traverseInorder(root->left_child);
  printf(" %d ", root->data);
  traverseInorder(root->right_child);
}
/*function to traverse the nodes of binary tree in postorder*/
void traversePostorder(struct node* root)
{
  if (root == NULL)
    return;
  traversePostorder(root->left_child);
```

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traversePostorder(root->right_child);
  printf(" %d ", root->data);
}
int main() {
  struct node* root = NULL; // Start with an empty tree
  int choice, value;
  while (1) {
    printf("\nBinary Search Tree Operations:\n");
    printf("1. create\n");
    printf("2. preorder\n");
    printf("3. Inorder Traversal\n");
    printf("4. postorder Traversal\n");
    printf("5. Exit\n");
    printf("Enter your choice: ");
    scanf("%d", &choice);
    switch (choice) {
       case 1:
         printf("Enter value to insert: ");
         scanf("%d", &value);
         root = insert(root,value);
         printf("Inserted %d into the BST.\n", value);
         break;
       case 2:
         traversePreorder(root);
         break;
       case 3:
         traverseInorder(root);
         break;
       case 4:
         traversePostorder(root);
         break;
       case 5:
         printf("Exiting...\n");
         exit(0);
       default:
         printf("Invalid choice! Please try again.\n");
  }
  return 0;
}
```