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/**** Binary Tree Traversal ****/
#include<stdio.h>
#include<conio.h>
struct node
 int data;
 struct node *left,*right;
};
struct node *root = NULL;
int count = 0;
struct node* insert(struct node *root,int data)
 struct node *newnode;
 newnode = (struct node*)malloc(sizeof(struct node));
 newnode->data = data;
 if(root == NULL)
   newnode->left = newnode->right = NULL;
   root = newnode;
   count++;
 else
   if(count%2 != 0)
        root->left = insert(root->left,data);
   else
        root->right = insert(root->right,data);
 return root;
void inorder(struct node *root)
 if(root != NULL)
   inorder(root->left);
   printf("%d\t",root->data);
   inorder(root->right);
 }
void preorder(struct node *root)
 if(root != NULL)
   printf("%d\t",root->data);
   preorder(root->left);
   preorder(root->right);
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}
}
void postorder(struct node *root)
 if(root != NULL)
   postorder(root->left);
   postorder(root->right);
   printf("%d\t",root->data);
 }
void main()
 int opt, data;
 clrscr();
 while(1){
   printf("\n1.Insert\n2.Inorder\n3.Preorder\n4.Postorder\n5.Exit\n");
   printf("Enter your option: ");
   scanf("%d",&opt);
   switch(opt)
        case 1:
          printf("Enter the value to be insert: ");
          scanf("%d", &data);
          root = insert(root,data);
          break;
        case 2:
          if (root==NULL)
            printf("Tree is empty\n");
          else
            inorder(root);
          break;
        case 3:
          if (root==NULL)
            printf("Tree is empty\n");
          else
            preorder(root);
          break;
        case 4:
          if (root==NULL)
            printf("Tree is empty\n");
          else
            postorder(root);
          break;
        case 5:
          exit(0);
        default:
          printf("Invalid Option\n");
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} } }