```
struct node
int ele;
  struct node "llink, *rlink;
3; typedef struct node * Node;
Node get node (int étem)
 Node temp = (Node) malloc (cizeof (struct node));
   temp -> ele = Item;
   temp->11ink= temp-solink = NULL;
   return temp;
Node insert (Node node, Int item)
   if (node == NULL)
   & return gernode (item); }
   if compo a node -> ele)
      node -> llink = insert ( node -> llink, ilem);
   else
      node -> Tlink = inverte node -> Tlink; item);
   return node;
void preorder (Node root)
  16 ( soot = = NULL)
   bunt (, 2001 -> 1 ' 2001 -> ole);
   preorder ( root -> leigh;
   preorder (noot-sklink);
```

```
Derek Stanley Kannath
                                                IBNIQUOUS
   void inorder (Node root)
       if ( root == NULL)
         return;
       inorder (root -> Ilink);
       print(" orod -> ", voot -> ele);
       inorder (root -> rlink);
Void
      -postoider (Node root)
     if ( root == NULL)
        return;
      Postorder croot -> 11ink);
      postorder ( root -> rlink);
      pointf("Tod ->", root-) ele);
void display ( Node root, int i)
    19 (2001-1 = NATT)
      display (root -s rlink, i+1);
      for()=0; jai; j++)
       printf(" dod in", root -> ele);
       display ( root -> Ilink, i+1);
   main()
int
    Node voot = NULL;
    int choice litem;
    -jor(;;)
   & printf " In1. Insert In2. Preorder In3. Inorder In4 Postordi
      In S. Doplay In 6. Exit In");
```

```
Derek Stanley Karnath
 point (" Finite choice: ");
sconf(" Tod", & choice);
                                                      1BM19CSOY1
  switch (choice)
3 case 1: printf (" Enter item to be inserted: ");
               scanf (" Fled", Allem);
               root = insert(root, irem);
               break ;
  case 2: printf(" Preorder traversal: ");
              precider (root);
              break;
  case 3: printf(" Inorder traversal: ");
inorder (root);
  case 4: prints ("Postoider traversal: ");
postorder (root);
             break,
  case 5 display ( root, 0);
            break;
  default: printf( "Enter proper instructions ( In");
            break:
return o;
```