JBN19CS158 BINARY TREE #include (stdio. N) # include (Stdlib.h) # include (string.h) struct node 3 int into; Struct node * llink; struct node * rlink; typedel struct node * NODE; NODE getnode() In order - left feet fint -NODE X; n= (NODE) mallor (size of (Struct node)); if (x == NULL) printy ("Memory not available!"); exit(0); void freenode (NODF x) (ree (2): NODE insent (int item, NODE root) NODE temp, cur, prev; char direction [10]. int i:

```
temp=getnode();
temp> llink=NULL;
temp-> rlink = NULL;
print ("Give direction to insert. . \n");
scant ("%s", direction);
Prev = NULL;
on (l=0; i(strien (direction) & curl=NULL; i++)
  if (direction[i]=='l')
 else
 cur = cur > rlink;
if (cur!= NUIL ||i| = stylen (direction))
print ("Insertion not possible In"); (1124-11001)
Preturn ( noot);
 prev -> rlink = temp;
return ( root);
```

```
display (nost -) rlink i+1);
 print ("%dln", nont > into);
 int main ()
 NODE root = NULL;
  int choice, i, item;
  for(;;)
print ["1. Insert In 2. Preorder In 3. Inorder In 4. Postorder (n5. Display)");
     (" Enter the choice: \n");
scan ("had", & choice);
Switch (choice)
 case 1: print ("Enter the item: \n");
       noot= insert (item, root);
Case 2: il ( 4 oot == NULL
           print ("Criven tree is .. In");
           display (400t, 1);
print (" The preoxder traversal is: In");
           preorder (root);
           break;
```

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epos () () () () () () () () () (
case 3: 1 (noot == NULL)
1411
print ("Tree is empty!
(1.12 Anil) 2- 500%) bolast
else
£ (0");
print (Voiven tree is. \n");
display (700t, 1);
print ("The inorder traversal is; In");
inonder (noot);
3
break;
case 4: if (root == NULL)
interpret to a restant on a contract to the test of
print ("Tree is empty!");
1 () () () () () () () () () (
else (sinds) mille
prints (* Griven tree is 1n"); display (900t, 1).
display (noot, 1).
print[! The post order traversal is: \n");
postorder (noot).
bush (JOH = = John) Card
Casa 5
Case 5: display (noot, 1);
de lault : 11/14
default: print ("Invalid choice entered. In");
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