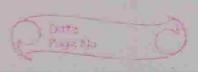
Lab 10 Brnary Search Tree. # Enclude < stolio. h> # include < stallibility # include < process.h> Struct nude Struct node & rlink;

Struct node & Illink; typeolog struct node \*NODE; NODE get MODE() x z (NODE) modloc (Sizeof (Struct node));
if (x z NULL) pointf (" men fall (n"); return x; wid freenode (NOPE x) free (n);



NODE Insent (NODE most, int item NODE temp, cur, prev; temp -> getrode (); temp -> Julik = NULL; temp -> Julik = NULL; temp -> onfo = êtem; 8f ( noot = = NOLL) return temp; Deen = WAPP, whole ( curt z NULL) predo z cur; cur ( 8 tem 2 cur -> Enfo)? curt > blink. p : cur -> mlink; if liter < proen - sento) poren -> Wink = femp; clace poer -> rlank = temp; return most;

```
vosel display (NODE root, and 2)
  if ( root! = NULL)
   display (root-> rollnk, it);

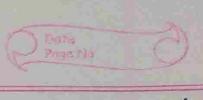
for (i=0; i<0; it)

proint f("");

proint f("");

display (root, int Item);

display (root-> blink, it);
NOPE delete (NOPE root, Int Hem)
 NODE Eur, povoent, q, Suc;
portet ("emptyln");
return root;
```



whale ( curl = null gg item; = cure-> dhfo parrent = cer; cur = (item < cur -> brfo) 9 cur > link : cur +> r work; 20 (aur 2 Z NOLL pront (" not found 10"); Suczano -> odink; while (Suc-> Idisk! = NOLL suc = suc -> delenko suc -> Wink = cur -> link; 9 = curs -> rlink;

if (parent = = NULL) free mode (Cur) toor muster ( took 3000) waper Dach point ( 41001 ( 2 NOTT) west ( " .1- d/0", soot - son roler ( 100+ -> block); preproder (roat -> rlank) road postoroler ( NODE root) ( 440N = [toost) \$1 post order (mont -> Llunk);

post order (voob- richk);

post to voler (voob- richk);

post to voler (voot->snfo);

tood snowder (NODE root Enorder ( root -> flink): frorder ( root > root -> org vood main () int I bem, chooce; NODE root = NULL; printf ( " in 1. insent in 2 - eligible !) 3. Proc 104. past to 5010 Inc. delete , & choice "Enter frem = Engent ( root

conse 2: display ( root, 0); corge 3: preproder (root); ose 4° post order ( most); break; corde 23 quarder (2007) coge 6; portet ("Enter viem (n"); Scanf ("1.d", & Hem); root = delete( root, item); default: over (0);