	21/12/2020.
10. BINARY SFARCT TREE	21/2/20
=# include < stdlib. h>	
=# include < stdio.h>	
Struct node	The state of the s
1	
intinfo;	The same of the
Struct nodex orling;	
J. Struck nady llenk	
b i	
typedy struct node* NODE;	
at Mode getnode ()	
NODE X:	le. ha ste e l
E-X = (NODE) malloc (size of (struct noo	(e)))?
if (x == NULL)	
The desired	, A
- printe (" memony full  n")i	
(= exit(o)	
return 2;	The second second
Void prienode (NODE x)	The state of the s
Void premode (10000 x)	
free(x);	
1 Portion of the second of the	
NODE insert (NODE mot, int item)	
- <u>d</u>	
NODE temp, cur, previ	
femp = getnode();	

```
Jemp + 1/2 lone NULLi
temp->link=NULL;
-lamp->info = item;
 return-tempi
  prev= NULL;
  (w= ~001;
while (cur ) - NULL)
cut= (item cour->info) ? cug -> llenr : cur -> 51/10/2
 if (item <prev-infa)
  prev-xlink-temp;
  prev-salenk=tempi
  return rooti
void display (NODE root, int i)
  if (root != NULL)
```

```
Void preorder (NODE root)
 if (root != NULL)
 prenty ("xd)n" root >info);
 preorder (root + Henk);
preorder (root > stenk)i
 Void postorder (NODE root)
- If (root != NULL)
 postorder (root + llink);
 postorder (not -> rlink)
 print ( "xd in", mot rentali
 void "norder (NODE root)
 if ( noot = NULL)
 inorder (root + Ilenk);
    prenty (" odn", root renge);
   inorder (root-> strk)
   Void main ()
```

int item-choice i
NaDE (33)
1 tosest [n 2, clesplay [n 3, pro to al and
prints ("In I insert in 2 clesplay in 3, bre in 4 post 5 len Geailling)  prints ("enter the cho; ce "D");  prints ("enter the cho; ce "D");
prints ("enter introce); scanf ("id", schoice);
switch (choice)
Switch Car
case 1: prints ('enter the stem');  scans ("yd", sitem);  encert (scot stem)
case 1. pour ("yd", bitem);
root = insert ( root riter)
case 2: dis play hoot, 0)  break;
bre aki
case 3: preorabi (rossi) breaki
case a; postorder (root);
breaki
Break)
case 5: inorder (root);
breaki
default: exit (o);
breaki.
6
Scanned with CamScanner