```
Hinclude Cstdio.h7
#include <stdlib.h>
     Struct node &
          int info;
         Struct node *link, * vlink;
   Vitypedef struct node *Node;
     Node getnode (int item) ?
      Node temp = (Node) maeloc (size of (struct node));
       temp->info=item;
       temp->link = temp-> olink = NULL;
         Jeturn temp; &
        Node insert (Node node, int info) s
           if (node==NULL)
          Teturan gernode (info);
           if (into 2 node -> into)
           nod(-> llink= insert (node-> llink, into);
           else
            node >> slink = insept(node >> slink, into);
             return node; 3
           Void Preorder (Node root) &
             if (800t == NULL) }
              return;
             Point+ ("/.d ->", 800t -> into);
             Pocooder (root-7 Mink);
              Priorder ( root-7 rlink); &
          Void inosdra (Nogr 2004) &
             if ( 800t == NULL) {
                return;
```

Pathod

```
1BM19CS043
inorder (root -7 llink);
Pointf (".1.d-7", root -7 info);
 inosoles (soot -7 slink); 9
  void postosdes (Node soot) ¿
    if(Soot == NULL) {
     return; &
    Post order (root -7 Illink);
     Postorder (root -78link);
     Pointfl" 1.d -7", 800+7 into); &
  Void display (Node robt, int i)
     int j;
       if (soot!=NULL)
     ¿ display (soot 78 link, i+1);
        toを(j=0;j'とよ;j++)
           Printf(" ");
          Print+("1.d\n", root-7 info);
          display (800t-7 llink, i+1);
     9 2
      int main() {
        Node soot = NULL;
        int choice, item;
         tor (;;)}
         Printf ("Infinsert In 2. Preorder Inz. Inorder In4. postorder
                     Ins. Display In6. (xit In");
          Printf(" Enter Choice: ");
           Sanf ("1-d", gittmail;
             Yout = inser Switch (choice) {
         Case 1: printf ("Enter item to be inserted:");
```

```
DAYANAND
                                                   1BM19CSOU3
Scanf ("-1-d", 4 item);
 root = insert (root, item);
   break;
(alse 2: point f l' porooder traversal: ");
         Preorder (root);
          bocak;
  (asc 3: Printfl" Inordis traversal:");
           inosdes (soot);
            borak;
   cas(4: point+1"postorder traversal:");
              Postorder (root);
                brak;
    Casis: display (800t,0);
               bocak;
      Case 6: exit(0);
      default: printf l'Enter proper instructions (!\n");
             break;
       8 8
        sourno;
```