WAP
a) Jo construct a binary search tree
b) To traverse the tree using All the methods
1) in-order
a) pre order
3) postorder
c) To display elements of the tree.
·
code:-
string include (stdin . h >
#include < stdlib.h>
Struct bipode
2
int vaus;
struct prode *1;
Stauct binode *n;
?* root = NULL *temp = NULL , *t2 , *t1;
Void insert();
Void inorder Cstauct binode * E);
void create ();
void search (stouct broade *t);
Void preorder (Storuct brode *t);
void postorder (stauct brode *t);
int flag = 1;

```
void main ()
int ch;
while (1) }
  print ( " 1 - insent /n");
prints (" 2 - morder m");
  prinif (" 3 - preorder \m");
   printf (" 4 - postorder /m");
 print P ( " 5 - Exit /n");
   printf (« Enter your choice (n");
     Scanf (" olod", Ich);
     switch (ch);
      case 1:
      insert();
       break;
       case o:
          inorder (root);
          break;
        case 3:
           preorder (root);
           break;
            case 4:
             postorder (root);
               break.
              case 5: exit(0);
```

```
default:
  printf (" Invalid Choice In");
   break;
Void create()!
 int data;
 print (" Enter data of mode to be insented:");
  Scanf C c ofod", Edota);
 temp = (struct broode *) malloc ( size of (struct broode))
temp - value = data;
 temp = temp -> r = NULLi
 Vold insent ()
  execte ();
    if ( root == NULL)
    root = temp;
    else
    seauch (root);
   void search (Struct behode *t)
   if ((temp - value) t - value) 88 (t -> r = MULL))
     senuch (t >r);
```

```
else if (Clemp - value > + - value) && (+ -> r == NULL))
      t \rightarrow r = +emb;
else if ((temp > value < (-> value) 88 (+ -) [ = NULL)
    seauch (1-1);
else if (Ctemp - value < t -> value) && (t -> = = NULL))
        t -> 1 = temp;
  Void inorder ( stauct binode * t)
       if (root = = MULL)
       printf(" No element in the titue /n");
        edun;
        printf (" dod", + > value);
           if (1-11 = HULL)
          inorder (+ ->r);
          void pareorder (Stanct bloode *+)
           if ( root == MULI) &
           printf(" No elements in tree /n");
          oleturn;
```

```
printf ( " olad > ", t > value);
if (1→11 MATT)
 preorder (+ >1);
  if (+ -r! = MULL)
 preorder (+ >r);
Void postorder (storuct binode * E)
   if ( moot = = NULL ) }
   printf (" No elements in the tree (n");
   retuin;
    if Ct →11 = NULL)
    postorder (+ -1);
     if (tor1 = NULL)
    postorder (t >t);
   printf (" god ->" + - value);
```

Expected output :- 1/

1. Insert - Inda . fam 2 14 -

dordnorder well all tille

3. Preorder

u. Pastorder

5. Exit

Enter your choice : 1.

Enter data sto be inserted: 15

Enter your schoice: 1144

Enter data to be inserted: 2

Enter your choice: Inserted: 67

Enter your enoice:1

Enter data to the inscribed: 90

Miles III f. W. Wolfers

Enter data to be insented: 34

Enter your choice: 2

Enter your choice: 3

Enter your choice: 4

abacid

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- Lu rank - E