```
LAB PROGRAM 7
```

```
some node
€
     int data;
     stime or mode * next;
  3,
      insert book ( stuct node ** headpt, in rales)
     suit rode * rusrole, * lemp;
     neurade = (truet molet) molloc (eizeof (xhuet mole));
 ٤
      num rade - dala = value',
      reconsole - rext = NULL;
      temp = * headptr;
      (المالا == المسطى إذ
              + headptr = new rode;
        else
            while (temp - next != NOLA)
        €
                    + unp = temp -> next;
             temp -> next = neconade;
          4
           remove book ( souch roole ** headphi)
     3
           your made * lamps;
     ٤
            DOMP = + headplu;
             H ( DEMP = = NULL)
                printy (" The sigh is empty : [ ! 'n"),
                 remo,
                else
                   were ( semp - next -> next 1: NULL)
                          temp > temp > rex C;
                    bump + next = NULL;
                    prints ("Last element has been deleted; 'n");
                 Z
         4
               display (simet hade *+emp)
         3
             gl ( semb = = NULL)
                wints (" List is empty !! ! \");
```

return;

3

```
gre
J
     white (lemp! = NULL)
     ફ
           prints (" 1.0 1t", temp-s data);
           temp = temp = next;
      3
     print ; (" (n");
  Z
 void Sort ( Wint node * * head per)
 {
      your roole *p, +9;
        p = 4 head ptr;
        int bomp;
        in ( == NULL)
        2 mint f (" List in emply");
               nums,
          3
          for (; p := NULL; p = p = next)
           for (q = p > next; q [= NULL; q = q -> next)
               of (6+ gas > d+ gasa)
                            temp = q - dolai,
                             ato data = p-> data;
                           ps does temp;
             print + (" sox completed; !! ");
     3
  void resurse ( struct hode + temp)
         ( temp == NULL)
  ર્
           prints (" List is empty !!! 'n");
          return;
        z
       shoot node + first = NULL, * second = lamp, * third = NULL;
        while ( seeond ! = NOL )
          third = second -> next!
           second -> next = juist
            first = seeond
            second = mi 101,
```

```
prints (" Hier Rumae:1n");
(١١١١١ = ١ مستد) عنس
   print ("1.016", temp-) data);
     somp = bamp = next;
  prints ("10");
f
     concernate ( shier made + empl)
     if ( Damps == NOLL L& Damps == NOLL)
ł
           prints ("BOTH with are emptyllis);
       esse of ( DEMP 2 = : NULL 2 & DAMPS != NULL)
       {
          wints (" Agter concederation: \ \");
           while ( Empl: = NULL)
                pints (" ). 0 4", temp > data);
                 lemp1 = samp1 -> next;
           mints ("(n");
         else if ( temps == NULL && trop2 != NULL)
         £
             mints (" after concetenation in").
             while ( temps !: NULL)
                 print f ("1.016", temp2 + dates);
                  jumpa = Lempa > next;
               prints ("10");
             3
           0176
              simer rode + 1 y = temp1;
         Ş
              white ( samp 1 snext ) = NULL)
                     tump1 = temp1 - next;
                samp1 = ne x 1 = camp2;
                prints (" Agur wheateration: 10");
               emp1: vy:
```

temp = juil;

```
while (lemp1 != NULL)
       points ("1.0 lt", temps + date);

temps = temps + next;
   prints (" (n");
```