DS LAB PROGRAM 7 WRITE UP

mithil Raj lab program (7) # include (stdioh) # Include ccomio R) stand node struct noch + unk; typedy struct node * NODE, Noor getnodi () NODEX v : (NODE) malloc (sign of c struct nod) if CX == NOUS bound & ("mem foll In"); exit (0); sution x. NODE insert JOON TOOK fort , Int you NODE temp , cur temp = getned () temp - single = item temp -> like = NOLE if Cfirst == NULLY saturn temp, cur = first while (w = 5 dink - NOLL) our = c ust ! I luk : cus -> linb = temp,

suturn first; Void display (NODE first). NODE temb, if (first == NULL) pound f (Contents of Justs: In"); I for (temp = first; temp) = NUCL; tem temps links (colure-done ! ul p.1 ...) Itured NODE CONCOL (NODE first , NODE second) if (Pirst == NULL) section second; if (secound = = NUCE) Sections first cur = first while (cur - link = NULL) cur = curd -s link, cur = link = second; return first NODE SOMERDO (NODE FIRST) NODE aux, temp; cur = NVLC; while (first. ! = NULL)

```
first = first stink
first = first stink
tomp stink = cur,
   cor=temp,
   raturn aur
  NODE wider wist (int item; NODE
  firs +)
  NODE temp, pour, cur,
  temp = getnodi ()
temp - ) injo = item
  temp-) ITAK = NULL;
  if (first == NULC) return temp,
  if (item afirst esimpo)
  temp slink = first)
 3 durat temps;
 pour = cur
 cur= cur-5 link;
 pour - June = temp;
 temp - slink = cur
 terit noutes
yord main ()
NODIE first = NULL / a, b;
```

```
first = first stink
first = first stink
tomp stink = cur,
   cor=temp,
   raturn aur
  NODE wider wist (int item; NODE
  firs +)
  NODE temp, pour, cur,
  temp = getnodi ()
temp - ) injo = item
  temp-) ITAK = NULL;
  if (first == NULC) return temp,
  if (item afirst esimpo)
  temp slink = first)
 3 durat temps;
 pour = cur
 cur= cur-5 link;
 pour - June = temp;
 temp - slink = cur
 terit noutes
yord main ()
NODIE first = NULL / a, b;
```

for (;;) parinte c"? Inseat from In 2. concating roverse in a - display Ins: on der list INP. Exit Luis. printf("enter your charce In")
Scanf ("-1.d", achorce-);
switch (choice) (ase I : pount (c'enter the itembre) Siant ("1.d1, &items (muti, terit) roure- trescrit +erif bruak (asea: point (enter the no of neds in] |n11) Scanf ("1 d", 8n); a = NULL for (1=0; icn; i++) ("" rester the item ") frived Scanf ("-1.d", & item); a= insert - rear (a, item); s ni ceben to an est retue") I trivad Scanf (".1.d", bn); P= NOW. Par (i=o; icn; i++ printf ("enter the item ""), Scanf (".1.d", & item); b= insert, ruon (b, item);

a= (on cat (a,b)) display (a) case 3: first = swerse (first),
display (first), (ase 4: display (first) bruak Case 5: paint (enter the item -bredered in ordered.

Scanf ("1.d", & item);

First = order-rebred = terit disjourt: exit (0);