include < stdio.h>
staut ande
§ .
int into:
int info: Atout ande * link;
type def sanit node * NODE;
type def shout node * NODE;
9
NOOF X;
X = (NODE) AND THE MOUNT (SOFT)
NODE X; X = (NODE) Strof mallex (Six of (NODE)); Pl (X = = NOLL)
point ("Memory full \n"); ent 10);
ant to .
3
nelinnx;
7
void freezedo & (NOBE X)
& free (x); 3
NOOE 50 put (NOOE first, "et lien)
d
NODE tomb;
temp = getinate();
temp - sinfo = info;
temp -> link = NULL;
"I (first = NULL)
if (first = NULL) return temp;
temp > link = first;

flux = timp;
Litary Cath
Februar Gast
has hely (NOOF list)
None pop (None fint)
NOOK timp;
NUM LANGE
y (fint == NOLL)
80
print ("Stack under flow \n");
Dung to the state
entry, noturn gula
1
L. Net-
temp = flut;
tomp = temp -> link; point ("item doloted Wat front end is = &d in", feet ->info);
Lead (11stern doloted Wat frient and U = 800 M. Jack - 1995)
pony with assert
not free (first);
rotuen temp;
void diplay ()
9
NODE temp;
front == NULL) print ("Stock empty (n"); for (temp = first; temp! = NULL; temp = temp > link) print ("od n", temp > info);
"Thet / "Start emply 10");
photo supply to the series
for (temp = flak; temp! = NULL; temp = ump = link)
a habit ("old in" temb-sinto):
9
int main ()
0 + 0 - 10
int stom, chous;
NOOF find = NULL; (or (;;)
(ACC)
bourds (" In 1. Push In 2. Pop in 3. desploy in 4. Exit in);
the carry intrinstruction of the contract of t

sant (" Ned my good choice) witch (chaire) ("Friter the (tem \n");

("old \n"; & (tem);

b = push (first, idem); first = do pop (first); deplay () (are 4: default : exit (0); break;

```
1 #include<stdio.h>
 2 #include<stdlib.h>
 3 struct node {
   int info;
 4
 5
   struct node*link;
    };
 6
 7 typedef struct node*NODE;
8 NODE getnode(){
    NODE x;
    x=(NODE)malloc(sizeof(struct node));
10
11 if(x==NULL) {
     printf("memfull\n");
12
     exit(0);
13
14
     }
15
   return x;
16
17 void freenode(NODE x){
   free(x);
18
    }
19
20 NODE insert_front(NODE first,int item) {
21
   NODE temp;
22 temp=getnode();
23 temp->info=item;
24 temp->link=NULL;
25
    if(first==NULL)
26
     return temp;
27
    temp->link=first;
28
     first=temp;
29
     return first;
30
31 NODE delete_front(NODE first){
32
    NODE temp;
33
    if(first==NULL) {
     printf("stack is empty cannot delete\n");
34
35
     return first;
36
37
    temp=first;
```

```
38
    temp=temp->link;
    printf("item deleted at front-end
39
  is=%d\n",first->info);
    free(first);
40
    return temp;
41
    }
42
43 void display(NODE first) {
    NODE temp;
44
45
    if(first==NULL)
46
     printf("stack empty cannot display
  items\n");
    for(temp=first;temp!=NULL;temp=temp->link)
47
     printf("%d\n",temp->info);
48
49
50
51 int main() {
52
    int item, choice;
    NODE first=NULL;
53
    for(;;) {
54
55
  printf("\n1:Insert_front\n2:Delete_front\n3:D
  isplay_list\n4:Exit\n");
     printf("enter the choice\n");
56
     scanf("%d", &choice);
57
     switch(choice) {
58
       case 1:printf("enter the item at
59
  front-end\n");
            scanf("%d",&item);
60
            first=insert_front(first,item);
61
62
            break;
       case 2:first=delete_front(first);
63
64
            break;
       case 3:display(first);
65
66
            break;
       default:exit(0);
67
68
69
70 }
```

```
1:Insert front
2:Delete front
3:Display_list
4:Exit
enter the choice
enter the item at front-end
10
1:Insert_front
2:Delete front
3:Display_list
4:Exit
enter the choice
enter the item at front-end
20
1:Insert front
2:Delete_front
3:Display_list
4:Exit
enter the choice
enter the item at front-end
30
1:Insert_front
2:Delete_front
3:Display_list
4:Exit
enter the choice
30
20
10
1:Insert_front
2:Delete_front
3:Display_list
4:Exit
enter the choice
item deleted at front-end is=30
1:Insert front
2:Delete front
3:Display_list
```

```
3:Display_list
4:Exit
enter the choice
2
item deleted at front-end is=20
1:Insert_front
2:Delete_front
3:Display_list
4:Exit
enter the choice
item deleted at front-end is=10
1:Insert_front
2:Delete_front
3:Display_list
4:Exit
enter the choice
stack is empty cannot delete
1:Insert_front
2:Delete_front
3:Display_list
4:Exit
enter the choice
stack empty cannot display items
1:Insert_front
2:Delete front
3:Display_list
4:Exit
enter the choice
```