```
2.a. Stack Emplementation using SLL, and State
                                            11006-16-16-1
# Include (Stdio. h)
# soulude (Stdlib.h)
                                                  JUM <- FK-01
                                   7781 - LEDIS-12-13-8
Struct nocle f
    Int data;
   Struct node + next;
(truct necle + top = NULL;
roid push()
   Struct node * new_node;
   new_node = (struct node + ) malloc (circof (struct node));
   prentf ("coter the element \n");
   Scanf (" "/d", s new_ no de -> data):
   new-node -> next = NULL;
   if (top == NULL) {
       top = new - no de;
    Jehre 1
       new-node -> nest = top;
      top = new-nodo;
void pope){
      if (top == NULL) {
          prontf ("Stack is Empty");
       ) whe {
          prontf ("deleted item is /d", top >> data);
      } top=top->next;
  void display() (
      Struct nocle* temp;
      of (for == NULL) (
```

```
printf ("Stack is empty");
                                                 DEBERRY !
                                                  2 Deperture
  Jehr
                                                  3. 9. Splay
     printf ("deleted item.
                                                    -17x3 41
     temp = top;
                                          word word what
     while (temp! = NULL) {
        printf ("/d In", tump -> data); formula with whose
         temp = temp -> next;
                                                  Trigreere
                                                  Deterer
                                                   3. Display
int main () f
                                         enter your charge
     ant choice.
     while (1) {
        printf ("1. push In 2. pop In 3. display In 4. cot In enter
              your choice: ");
        Scanf ("./.d", 4 choice);
        switch (choice) f
                                                       dung !
           Carel: push (); break;
                                                       2.000
            case 2: pop (); break:
                                                     3- display
            cares: display(); break;
                                                       LA. CHIT
           carl 4: exit(0);
                                                       Marie
                                     Your choice:
                                                      when
                                      John man
 retumo;
                                                        HOUR !
                                                        200
                                                      SPA (Red
                                        Orter your choice; 3
```

a . mail: hatalak

1200 (1/300) 1-10/1/20 gab & 11/1/20 1/20 ac · (Mosses) of stack ( ( o) i o) + (" 1. push (danie); () de 2. pop b ()) Hincolk. 3- display plage); break 4. enit your choice: 1 enter your dement 1- Pruch 2. Pop 3. display 4 cout enter your choice: 2 deleted item is 2.

```
1.PUSH 2.POP 3.DISPLAY 4.EXIT

Enter a value11
Successfully Added 11
1.PUSH 2.POP 3.DISPLAY 4.EXIT

Enter a value11
Successfully Added 11
1.PUSH 2.POP 3.DISPLAY 4.EXIT

3
11
11
1.PUSH 2.POP 3.DISPLAY 4.EXIT
```

```
1 (1 mg/Line )
26 Queue Implementation
                                 that needs I man frest.
# mclude (Stdio.h)
                                         1 (TRAN == dless) }
# snclude < Stdlib. h>
                          ( wolf files a ming ) Husde
Gruch node
    int data;
                          ( al: game mon) ford
   struct node * rent;
                                1 (170N - 1 dwy) my
                            -dent aupport is thereby
Struct node + front = NULL;
                               temp temp sacet;
struct node * flax = NULL;
void enquere () f
    Struct node * new-rode = (struct node *) malloc (size of (struct mode));
    printf ("Enter the element:");
                                                1 (1) Wien
    scanf ("/d", & new-noele -> data);
                                             2010-10 19
    new-node -> next = NULL;
                                               1 (1) 21 95
    of (nar = = NULL) (
  Front = reat = new-no de : son/www.phison
        near->next = new-node;
        year = new-nodi;
                                       (2001) 12451S
                           (ox 1: Endrene (); p. cx F.
                            (mi 2: defrence ( ); priate.
void dequeue () (
           print ("Quive is Emply In");
       [ (front = = NULL) {
      3 elle (
         Struct neele * temp = front;
         prontf ("Deleted ilum is 1.d In", front -> data);
         front - front -> rust;
         free (timp);
```

```
Hord display () (
                                          (finele (Stollo 18)
     Struct nocle * temp = front;
                                        My Clark (Stallib-177
     if (temp==NULL) (
                                                   Moor -
         printf ("Ocene is empty \n");
                                               and date.
                                        fried work print
       Pront ("Queue Elements: In");
        while (timp! = NULL) f
            pronte ("/d In", timp->data);
           temp= temp->next;
                                           Milling Per
mt main() {

The Choice;

Part Choice;
                                      ) (1101 = = 11011) (
      while (1) f
         Tentu your chaire 42. Dequine in 3. D. Splay 12. Exit
        scanf ("./.d", 4 choice);
        Switch (Choic) 1
           Can1: enque (); break;
can2: depuese (); break;
                                      getiment () &
                                    1 (172/N = = - 120 yz) /1
         care 3: displayer; break.
                                               9200
    Schurn Ojabe had "al bil a nort - grant voloson frances
                                  then - front - most;
                                       : (dust) 334
```

ack in completi); Sp: 1. Enqueue 2 Dequeul mit bot 3. Display 4. Exit Enter Your Choice: 1 Enter the element: 400 1 (1101 = 10 Just 10/64-11 1. Enquere tour and mo 2. Depreue 3. Display 4-Enit Enter your choice: 6

when alter the pulgation of gog sal doug.

## C:\Users\User\Desktop\1BM22CS312\qll.exe

		The second secon	
1.Enqueue 1 Enter a value Successfully		3.DISPLAY	4.EXIT
1.Enqueue 1 Enter a value	2.Dequeue e: 2	3.DISPLAY	4.EXIT
1. Enqueue 3 6	2.Dequeue	3.DISPLAY	4.EXIT
1. Enqueue	2.Dequeue	3.DISPLAY	4.EXIT