```
* Linear Quene
atdefine Size 5
 ent gliene [size] . front = 1, rear = 1;
 void Retet ();
 int dequene();
 void display ();
void ment () {
     int oum:
    printf (" (inter the number to "mest ");
    scant ( " 7.d", frum );
    if (rear = = size-1) of
        prints (" overflow");
     I else it (front=1 88 rear == -1) 1
             foot-0;
              rear = 01
       I else 1
              rear ++;
              queue [rear] = num;
  void display () &
        int:
        printle ("In");
         if (front ==-1 11 front > rear)
                 prints (" Queue is empty);
          else s
             for ( = front ; ; = rear; ; ++) (
                      prints (" Element of Queue: "tod", queue [1];
```

```
int dequeue () 1
       ist pualue;
       of (front == -1 11 front > rear)
           printf (" unde Flow");
        I else &
              value = queue (front];
              front ++;
               if (front > rear) {
                     front = -1;
                     rear = -1;
                 return val;
0/p:
   *** * MENU ***
   Enterl: to invert
   Enter 2: to delete
   Enter 3: to display
  Enter 4: Exit
  Enter your choice: 1
  Enter the number to insert: 62
   Enter your choice : 2:
   Deleted element is 62
  Enter your choice: 3
    Element of Jueue: 42
    Clement of Jueue: 27
   Enter your choice: 4
              expt.
```

```
& Cercular Juene
 # include & stdio. h>
  # define size 5
    int queue[size], rear=-1, front=-1;
    int isfull of
         if ((front == rear - 1) 11 (front == 0 $ $ rear == size-1))
                     return 1;
          rehun 0;
   int is empty () &
         if (front == -1)1
    void enqueue (Pot element) /
            : F (ishull) /
                print (" Que is hell");
            I else of the second
                 if (front = = - 1)
                     front = 0;
                 rear = (rear+1) 1-5/20;
                 queue [rear] = element.
                 printf (" Enseition successful : "I.d", clement);
```

```
int dequeue () &
     not value:
      if (is Empty ()) {
             printle (" Quene is Empty");
             return 1;
        Jelse 1
            vadue = givene [front];
            of ( front = = rear) 1
                 front = -1;
                  rear = - 1;
            I else 1
           return (value);
void display () 1
      if ( is Empty ())
              prints ('Queue :s (mpty");
      else 1
         pointf (" front position: " !d", front);
        for ( = front; ; != rear; ;= (i+1) 1- Size) {
             printf ("ind", guene [i]);
         prott (" · led", queue [i]);
```

019: LAKK MENU KKKK Enter I: A lowert Enter 2: to delete enter 3: et display Enter 4 to exit Enter your choice: 1 Enter the number to invert: 54 Enter your choice : 1 Enter the number to insert : 26 Enter your choice: 3 Element in Jueue : 54 Clement in Queue: 26 Conter your choice: 2 Deleted element: 54 Enter your choice !4 Exit.