```
#include (stdio.h)
# define size 5
void insertq (int[], int);
void deleteg (int[]);
                                   7 else if (marty [1] 5
void display (int[]);
int front = -1;
                                      points [] = S.
int rear = - 1;
int main ()
                                   (else if (marks-11))=
        int n, ch;
         int queul [size];
         do
               printf ("Inha Circular Queue: In1. Insert In2. Delete
                                                   In3. Display In O. Exit");
               printf ("InEntel Choice 0-3?:");
                scanf(" 1.d", &ch);
                switch (ch)
                            case 1:
```

```
printf ("In Enter number:");
             scanf (4%1", In);
             insert q (queue, n);
             break;
        case 2:
            deleter(quere);
        case 3:
            display (quew);
            break;
  } while (ch!= o);
void inserty (int queue [], int item)
    if ((front == 0 & & rear == size -1) | (front == rear +1))
            printf ("quene is full");
            return ;
         else if ( rear == -1)
              rear ++;
              front++;
        else if (rear == size -1 & & front >0)
              Year = 0;
        else
              rear ++;
         quer[rear] = item;
```

```
void display (int queue[])
      int is
      printf("In");
      if (front I reur)
            for ( i= front; i < size jit+)
                 printf("".d", quene[i]);
            for (i=0; i <= rear; i++)
                 printf ("!d}", queue[i]);
       else
            for (i= front; i <= rear; i++)
                printf ("/d", queue [i]);
void delete (int queue [])
       if (front == -1)
              printf ("Queue is empty");
        else if (front == rear)
             printf ("In % of deleted", queue [front]);
             front = -1;
             rear = - 1;
               print f(" In/.d deleted", queve [front]);
               front ++;
```

```
Circular Queue:

    Insert

2. Delete
3. Display
0. Exit
Enter Choice 0-3? : 1
Enter number: 4
Circular Queue:
1. Insert
2. Delete
Display
0. Exit
Enter Choice 0-3? : 1
Enter number: 5
Circular Queue:
1. Insert
2. Delete
3. Display
0. Exit
Enter Choice 0-3? : 3
4 5
Circular Queue:

    Insert

2. Delete
3. Display
0. Exit
```

```
Enter Choice 0-3? :
                                                                                                                                                                                                                                                      Enter Choice 0-32 : 2
                                                                                                                                                                                                                                                                                                                                                                                        Enter Choice 0-3? : 2
                                                                                                    Queue is empty
                                                                                                                    Enter Choice 0-3? : 2
                                                                                                                                                                                                                         5 deleted
                                                                                                                                                                                                                                                                                                                                                            4 deleted
                                                                        Circular Queue:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                Circular Queue:
                                                                                                                                                                                            Circular Queue:
                                                                                                                                                                                                                                                                                                                              Circular Queue:
                                                         Insert
               Exit
                                                                                                                                                                                                                                                                     Exit
                                                                                                                                                                                                                                                                                                  Delete
                                                                                                                                                                                                                                                                                                                                                                                                                                    Delete
                                           Delete
                                                                                                                                                Display
                                                                                                                                                               Delete
                                                                                                                                                                                                                                                                                  Display
                                                                                                                                                                                                                                                                                                                                                                                                                                                  Insert
                                                                                                                                   Exit
                                                                                                                                                                              Insert
                            Display
                                                                                                                                                                                                                                                                                                                                                                                                                     Display
                                                                                                                                                                                                                                                                                                                Insert
                                                                                                                                                                                                                                                                                                                                                                                                        Exit
```