**Question 1**

Write a program implementing insert, delete and display operation of Circular Queue

void insertCQ(int val) {

   if ((front == 0 && rear == n-1) || (front == rear+1)) {

      cout<<"Queue Overflow \n";

      return;

   }

   if (front == -1) {

      front = 0;

      rear = 0;

   }

   else {

      if (rear == n - 1)

         rear = 0;

      else

         rear = rear + 1;

   }

   cqueue[rear] = val ;

}

void deleteCQ() {

   if (front == -1) {

      cout<<"Queue Underflow\n";

      return ;

   }

   cout<<"Element deleted from queue is : "<<cqueue[front]<<endl;

   if (front == rear) {

      front = -1;

      rear = -1;

   }

   else {

      if (front == n - 1)

         front = 0;

      else

         front = front + 1;

   }

}

void displayCQ() {

   int f = front, r = rear;

   if (front == -1) {

      cout<<"Queue is empty"<<endl;

      return;

   }

   cout<<"Queue elements are :\n";

   if (f <= r) {

      while (f <= r){

         cout<<cqueue[f]<<" ";

         f++;

      }

   }

   else {

      while (f <= n - 1) {

         cout<<cqueue[f]<<" ";

         f++;

      }

      f = 0;

      while (f <= r) {

         cout<<cqueue[f]<<" ";

         f++;

      }

   }

   cout<<endl;

}