

Practical 04

Abhishek Gupta

2019450017

4.1 Queue_17.cpp

```
#include<iostream>
#include<stdlib.h>
using namespace std;

class Queue
{
public:
    int choice,value,fr,rear,size,rElement;
    int arr[100];

    Queue ()
    {
        rear=fr=-1;
        for(int i=0;i<100;i++)
        {
            arr[i]=0;
        }

        cout<<"Enter Size of Queue (Less than 100) : ";
        cin>>size;
        cout<<endl;
    }

    void get()
    {
        do
        {
            cout<<"0.Exit\n01.Push an Element\n02.Pop an Element\n03.Display\n";
            cout<<"Enter Your Choice : "<<" ";
```

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```
        cin>>choice;
        switch(choice)
        {
            case 0:
                break;

            case 1:
                push();
                break;

            case 2:
                pop();
                break;

            case 3:
                display();
                break;

            default:
                cout<<"invalid input"<<endl<<endl;
        }
    }while(choice!=0);
}

bool isEmpty()
{
    if(rear == -1 && fr == -1)
    {
        return true;
    }
    else
```

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```
    {
        return false;
    }
}

bool isFull()
{
    if(rear >= size-1)
    {
        return true;
    }
    else
    {
        return false;
    }
}

void push()
{
    cout<<"Enter value : ";
    cin>>value;
    cout<<endl;
    if(isFull())
    {
        cout<<"Sorry OverFlow "<<endl;
    }
    else if (rear == -1 and fr == -1)
    {
        rear=0;
        fr=0;
        arr[rear]=value;
    }
}
```

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```
    }
    else
    {
        rear=rear+1;
        arr[rear]=value;
    }
    display();
    cout<<endl;
}

void pop()
{
    cout<<endl;
    if(isEmpty())
    {
        cout<<"Sorry UnderFlow "<<endl;
    }
    else if (fr == rear)
    {
        rElement=arr[fr];
        arr[fr]=0;
        cout<<"The removed Element : "<<rElement<<" from
Position : "<<fr<<endl;
        fr=-1;
        rear=-1;
    }
    else
    {
        rElement=arr[fr];
        arr[fr]=0;
        cout<<"The removed Element : "<<rElement<<" from
Position : "<<fr<<endl;
```

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```
        fr=fr+1;
    }
    display();
    cout<<endl;
}

void display()
{
    cout<<"The Elements in Queue are :"<<endl;
    for(int i=0;i<size;i++)
    {
        cout<<"Position : "<<i<<" value : "<<arr[i]<<endl;
    }
}

};

int main()
{
    Queue d;
    d.get();
    return 0;
}
```

Output :

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```
Enter Size of Queue (Less than 100) : 5
```

```
0.Exit
```

```
01.Push an Element
```

```
02.Pop an Element
```

```
03.Display
```

```
Enter Your Choice : 1
```

```
Enter value : 10
```

```
The Elements in Queue are :
```

```
Position : 0 value : 10
```

```
Position : 1 value : 0
```

```
Position : 2 value : 0
```

```
Position : 3 value : 0
```

```
Position : 4 value : 0
```

```
0.Exit
```

```
01.Push an Element
```

```
02.Pop an Element
```

```
03.Display
```

```
Enter Your Choice : 1
```

```
Enter value : 20
```

```
The Elements in Queue are :
```

```
Position : 0 value : 10
```

```
Position : 1 value : 20
```

```
Position : 2 value : 0
```

```
Position : 3 value : 0
```

```
Position : 4 value : 0
```

```
0.Exit
```

```
01.Push an Element
```

```
02.Pop an Element
```

```
03.Display
```

```
Enter Your Choice : 1
```

```
Enter value : 30
```

```
The Elements in Queue are :
```

```
Position : 0 value : 10
```

```
Position : 1 value : 20
```

```
Position : 2 value : 30
```

```
Position : 3 value : 0
```

```
Position : 4 value : 0
```

```
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```

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```
0.Exit
01.Push an Element
02.Pop an Element
03.Display
Enter Your Choice : 1
Enter value : 40

The Elements in Queue are :
Position : 0 value : 10
Position : 1 value : 20
Position : 2 value : 30
Position : 3 value : 40
Position : 4 value : 0

0.Exit
01.Push an Element
02.Pop an Element
03.Display
Enter Your Choice : 1
Enter value : 50

The Elements in Queue are :
Position : 0 value : 10
Position : 1 value : 20
Position : 2 value : 30
Position : 3 value : 40
Position : 4 value : 50

0.Exit
01.Push an Element
02.Pop an Element
03.Display
Enter Your Choice : 1
Enter value : 60

Sorry OverFlow
The Elements in Queue are :
Position : 0 value : 10
Position : 1 value : 20
Position : 2 value : 30
Position : 3 value : 40
Position : 4 value : 50
```

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```
0.Exit
01.Push an Element
02.Pop an Element
03.Display
Enter Your Choice : 2

The removed Element : 10 from Position : 0
The Elements in Queue are :
Position : 0 value : 0
Position : 1 value : 20
Position : 2 value : 30
Position : 3 value : 40
Position : 4 value : 50

0.Exit
01.Push an Element
02.Pop an Element
03.Display
Enter Your Choice : 2

The removed Element : 20 from Position : 1
The Elements in Queue are :
Position : 0 value : 0
Position : 1 value : 0
Position : 2 value : 30
Position : 3 value : 40
Position : 4 value : 50

0.Exit
01.Push an Element
02.Pop an Element
03.Display
Enter Your Choice : 2

The removed Element : 30 from Position : 2
The Elements in Queue are :
Position : 0 value : 0
Position : 1 value : 0
Position : 2 value : 0
Position : 3 value : 40
Position : 4 value : 50
```

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```
0.Exit
01.Push an Element
02.Pop an Element
03.Display
Enter Your Choice : 2

The removed Element : 40 from Position : 3
The Elements in Queue are :
Position : 0 value : 0
Position : 1 value : 0
Position : 2 value : 0
Position : 3 value : 0
Position : 4 value : 50

0.Exit
01.Push an Element
02.Pop an Element
03.Display
Enter Your Choice : 2

The removed Element : 50 from Position : 4
The Elements in Queue are :
Position : 0 value : 0
Position : 1 value : 0
Position : 2 value : 0
Position : 3 value : 0
Position : 4 value : 0

0.Exit
01.Push an Element
02.Pop an Element
03.Display
Enter Your Choice : 2

Sorry UnderFlow
The Elements in Queue are :
Position : 0 value : 0
Position : 1 value : 0
Position : 2 value : 0
Position : 3 value : 0
Position : 4 value : 0
```

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```
0.Exit
01.Push an Element
02.Pop an Element
03.Display
Enter Your Choice : 3
The Elements in Queue are :
Position : 0 value : 0
Position : 1 value : 0
Position : 2 value : 0
Position : 3 value : 0
Position : 4 value : 0
0.Exit
01.Push an Element
02.Pop an Element
03.Display
Enter Your Choice : 0

Process returned 0 (0x0)   execution time : 218.308 s
Press any key to continue.
```

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4.2 Doubly_Queue_17.cpp

```
#include<iostream>
#include<stdlib.h>
using namespace std;

class DoublyQueue
{
public:
int choice,value,lfront,lrear,rrear,rfront,size,rElement,count;
int arr[100];

DoublyQueue()
{
    lfront=lrear=-1;
    for(int i=0;i<100;i++)
    {
        arr[i]=0;
    }

    cout<<"Enter Size of Queue (Less than 100) : ";
    cin>>size;
    cout<<endl;

    rrear=rfront=size;
}

void get()
{
    do
    {
```

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```
        cout<<"0.Exit\n01.Push an Element ( Left Side\n02.Pop an Element ( Left Side )\n03.Push an Element ( Right Side )\n04.Pop an Element ( Right Side )\n05.Display\n";
        cout<<"Enter Your Choice : "<<" ";
        cin>>choice;
        switch(choice)
        {
            case 0:
                break;

            case 1:
                lpush();
                break;

            case 2:
                lpop();
                break;

            case 3:
                rpush();
                break;

            case 4:
                rpop();
                break;

            case 5:
                display();
                break;

            default:
                cout<<"invalid input"<<endl<<endl;
```

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```
        }
        }while(choice!=0);
    }

bool isEmptyr()
{
    if(rrear == size && rfront == size)
    {
        return true;
    }
    else
    {
        return false;
    }
}

bool isFullr()
{
    if(arr[rrear-1] != 0)
    {
        return true;
    }
    else
    {
        return false;
    }
}

bool isEmptyl()
{
    if(lrear == -1 && lfront == -1)
```

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```
{
    return true;
}
else
{
    return false;
}
}

bool isFull1()
{
    if(arr[rrear-1] != 0)
    {
        return true;
    }
    else
    {
        return false;
    }
}

void lpush()
{
    cout<<"Enter value : ";
    cin>>value;
    cout<<endl;
    if(isFull1())
    {
        cout<<lrear<<" ";
        cout<<"Sorry OverFlowwww "<<endl;
    }
}
```

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```
else if (lrear == -1 and lfront == -1)
{
    cout<<lrear<<" ";
    lrear=0;
    lfront=0;
    arr[lrear]=value;
}
else
{
    cout<<lrear<<" ";
    lrear=lrear+1;
    arr[lrear]=value;
}
display();
cout<<endl;
}

void lpop()
{
    cout<<endl;
    if(isEmptyl())
    {
        cout<<"Sorry UnderFlow "<<endl;
    }
    else if (lfront <= lrear)
    {
        rElement=arr[lfront];
        arr[lfront]=0;
        cout<<"The removed Element : "<<rElement<<" from
Position : "<<lfront<<endl;
        lfront=lfront+1;
    }
}
```

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```
    else
    {
        cout<<"Sorry UnderFlow "<<endl;
    }
    display();
    cout<<endl;
}

void rpush()
{
    cout<<"Enter value : ";
    cin>>value;
    cout<<endl;
    if(isFullr())
    {
        cout<<"Sorry OverFlow "<<endl;
    }
    else if (rrear == size and rfront == size)
    {
        rrear=size-1;
        rfront=size-1;
        arr[rrear]=value;
    }
    else
    {
        rrear=rrear-1;
        arr[rrear]=value;
    }
    display();
    cout<<endl;
}
```

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```
void rpop()
{
    cout<<endl;
    if(isEmptyr())
    {
        cout<<"Sorry UnderFlow "<<endl;
    }
    else if (rrear <= rfront)
    {
        rElement=arr[rfront];
        arr[rfront]=0;
        cout<<"The removed Element : "<<rElement<<" from
Position : "<<lfront<<endl;
        rfront=rfront-1;
    }
    else
    {
        cout<<"Sorry UnderFlow "<<endl;
    }
    display();
    cout<<endl;
}

void display()
{
    cout<<"The Elements in Queue are : "<<endl;
    for(int i=0;i<size;i++)
    {
        cout<<"Position : "<<i<<" value : "<<arr[i]<<endl;
    }
}
```

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```
};  
  
int main()  
{  
    DoublyQueue d;  
    d.get();  
    return 0;  
}
```

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Output :

```
C:\Users\gupta\Desktop\Queue>dq.exe
Enter Size of Queue (Less than 100) : 3

0.Exit
01.Push an Element ( Left Side )
02.Pop an Element ( Left Side )
03.Push an Element ( Right Side )
04.Pop an Element ( Right Side )
05.Display
Enter Your Choice : 1
Enter value : 10

-1 The Elements in Queue are :
Position : 0 value : 10
Position : 1 value : 0
Position : 2 value : 0

0.Exit
01.Push an Element ( Left Side )
02.Pop an Element ( Left Side )
03.Push an Element ( Right Side )
04.Pop an Element ( Right Side )
05.Display
Enter Your Choice : 1
Enter value : 20

0 The Elements in Queue are :
Position : 0 value : 10
Position : 1 value : 20
Position : 2 value : 0

0.Exit
01.Push an Element ( Left Side )
02.Pop an Element ( Left Side )
03.Push an Element ( Right Side )
04.Pop an Element ( Right Side )
05.Display
Enter Your Choice : 3
Enter value : 200
```

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```
The Elements in Queue are :
Position : 0 value : 10
Position : 1 value : 20
Position : 2 value : 200

0.Exit
01.Push an Element ( Left Side )
02.Pop an Element ( Left Side )
03.Push an Element ( Right Side )
04.Pop an Element ( Right Side )
05.Display
Enter Your Choice : 2

The removed Element : 10 from Position : 0
The Elements in Queue are :
Position : 0 value : 0
Position : 1 value : 20
Position : 2 value : 200

0.Exit
01.Push an Element ( Left Side )
02.Pop an Element ( Left Side )
03.Push an Element ( Right Side )
04.Pop an Element ( Right Side )
05.Display
Enter Your Choice : 2

The removed Element : 20 from Position : 1
The Elements in Queue are :
Position : 0 value : 0
Position : 1 value : 0
Position : 2 value : 200

0.Exit
01.Push an Element ( Left Side )
02.Pop an Element ( Left Side )
03.Push an Element ( Right Side )
04.Pop an Element ( Right Side )
05.Display
Enter Your Choice : 3
Enter value : 1010
```

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```
The Elements in Queue are :
Position : 0 value : 0
Position : 1 value : 1010
Position : 2 value : 200

0.Exit
01.Push an Element ( Left Side )
02.Pop an Element ( Left Side )
03.Push an Element ( Right Side )
04.Pop an Element ( Right Side )
05.Display
Enter Your Choice : 4

The removed Element : 200 from Position : 2
The Elements in Queue are :
Position : 0 value : 0
Position : 1 value : 1010
Position : 2 value : 0

0.Exit
01.Push an Element ( Left Side )
02.Pop an Element ( Left Side )
03.Push an Element ( Right Side )
04.Pop an Element ( Right Side )
05.Display
Enter Your Choice : 5
The Elements in Queue are :
Position : 0 value : 0
Position : 1 value : 1010
Position : 2 value : 0

0.Exit
01.Push an Element ( Left Side )
02.Pop an Element ( Left Side )
03.Push an Element ( Right Side )
04.Pop an Element ( Right Side )
05.Display
Enter Your Choice : 0

C:\Users\gupta\Desktop\Queue>
```

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4.3 Circular_Queue_17.cpp

```
#include<iostream>
#include<stdlib.h>
using namespace std;

class CircularQueue
{
public:
    int choice,value,fr,rear,size,rElement;
    int arr[100];

    CircularQueue()
    {
        rear=fr=-1;
        for(int i=0;i<100;i++)
        {
            arr[i]=0;
        }

        cout<<"Enter Size of CircularQueue (Less than 100) : ";
        cin>>size;
        cout<<endl;
    }

    void get()
    {
        do
        {
            cout<<"0.Exit\n01.Push an Element\n02.Pop an Element\n03.Display\n";
            cout<<"Enter Your Choice : "<<" ";
```

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```
        cin>>choice;
        switch(choice)
        {
            case 0:
                break;

            case 1:
                push();
                break;

            case 2:
                pop();
                break;

            case 3:
                display();
                break;

            default:
                cout<<"invalid input"<<endl<<endl;
        }
    }while(choice!=0);
}

bool isEmpty()
{
    if(rear == -1 && fr == -1)
    {
        return true;
    }
    else
```

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```
{
    return false;
}

bool isFull()
{
    if((rear+1)%size == fr)
    {
        return true;
    }
    else
    {
        return false;
    }
}

void push()
{
    cout<<"Enter value : ";
    cin>>value;
    cout<<endl;
    if(isFull())
    {
        cout<<"Sorry OverFlow "<<endl;
    }
    else if (rear == -1 and fr == -1)
    {
        rear=0;
        fr=0;
        arr[rear]=value;
    }
}
```

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```
    }
    else
    {
        rear=(rear+1)%size;
        arr[rear]=value;
    }
    display();
    cout<<endl;
}

void pop()
{
    cout<<endl;
    if(isEmpty())
    {
        cout<<"Sorry UnderFlow "<<endl;
    }
    else if (fr == rear)
    {
        rElement=arr[fr];
        arr[fr]=0;
        cout<<"The removed Element : "<<rElement<<" from
Position : "<<fr<<endl;
        fr=-1;
        rear=-1;
    }
    else
    {
        rElement=arr[fr];
        arr[fr]=0;
        cout<<"The removed Element : "<<rElement<<" from
Position : "<<fr<<endl;
```

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```
        fr=(fr+1)%size;
    }
    display();
    cout<<endl;
}

void display()
{
    cout<<"The Elements in CircularQueue are :"<<endl;
    for(int i=0;i<size;i++)
    {
        cout<<"Position : "<<i<<" value : "<<arr[i]<<endl;
    }
}

};

int main()
{
    CircularQueue d;
    d.get();
    return 0;
}
```

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Output :

```
0.Exit
01.Push an Element
02.Pop an Element
03.Display
Enter Your Choice : 1
Enter value : 10

The Elements in CircularQueue are :
Position : 0 value : 10
Position : 1 value : 0
Position : 2 value : 0
Position : 3 value : 0
Position : 4 value : 0

0.Exit
01.Push an Element
02.Pop an Element
03.Display
Enter Your Choice : 1
Enter value : 20

The Elements in CircularQueue are :
Position : 0 value : 10
Position : 1 value : 20
Position : 2 value : 0
Position : 3 value : 0
Position : 4 value : 0

0.Exit
01.Push an Element
02.Pop an Element
03.Display
Enter Your Choice : 1
Enter value : 30

The Elements in CircularQueue are :
Position : 0 value : 10
Position : 1 value : 20
Position : 2 value : 30
Position : 3 value : 0
Position : 4 value : 0
```

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```
0.Exit
01.Push an Element
02.Pop an Element
03.Display
Enter Your Choice : 2

The removed Element : 10 from Position : 0
The Elements in CircularQueue are :
Position : 0 value : 0
Position : 1 value : 20
Position : 2 value : 30
Position : 3 value : 0
Position : 4 value : 0

0.Exit
01.Push an Element
02.Pop an Element
03.Display
Enter Your Choice : 1
Enter value : 40

The Elements in CircularQueue are :
Position : 0 value : 0
Position : 1 value : 20
Position : 2 value : 30
Position : 3 value : 40
Position : 4 value : 0

0.Exit
01.Push an Element
02.Pop an Element
03.Display
Enter Your Choice : 1
Enter value : 50

The Elements in CircularQueue are :
Position : 0 value : 0
Position : 1 value : 20
Position : 2 value : 30
Position : 3 value : 40
Position : 4 value : 50
```

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```
0.Exit
01.Push an Element
02.Pop an Element
03.Display
Enter Your Choice : 2

The removed Element : 20 from Position : 1
The Elements in CircularQueue are :
Position : 0 value : 0
Position : 1 value : 0
Position : 2 value : 30
Position : 3 value : 40
Position : 4 value : 50

0.Exit
01.Push an Element
02.Pop an Element
03.Display
Enter Your Choice : 1
Enter value : 60

The Elements in CircularQueue are :
Position : 0 value : 60
Position : 1 value : 0
Position : 2 value : 30
Position : 3 value : 40
Position : 4 value : 50

0.Exit
01.Push an Element
02.Pop an Element
03.Display
Enter Your Choice : 1
Enter value : 70

The Elements in CircularQueue are :
Position : 0 value : 60
Position : 1 value : 70
Position : 2 value : 30
Position : 3 value : 40
Position : 4 value : 50
```

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```
0.Exit
01.Push an Element
02.Pop an Element
03.Display
Enter Your Choice : 2

The removed Element : 30 from Position : 2
The Elements in CircularQueue are :
Position : 0 value : 60
Position : 1 value : 70
Position : 2 value : 0
Position : 3 value : 40
Position : 4 value : 50

0.Exit
01.Push an Element
02.Pop an Element
03.Display
Enter Your Choice : 2

The removed Element : 40 from Position : 3
The Elements in CircularQueue are :
Position : 0 value : 60
Position : 1 value : 70
Position : 2 value : 0
Position : 3 value : 0
Position : 4 value : 50

0.Exit
01.Push an Element
02.Pop an Element
03.Display
Enter Your Choice : 2

The removed Element : 50 from Position : 4
The Elements in CircularQueue are :
Position : 0 value : 60
Position : 1 value : 70
Position : 2 value : 0
Position : 3 value : 0
Position : 4 value : 0

0.Exit
01.Push an Element
02.Pop an Element
03.Display
Enter Your Choice : 2

The removed Element : 60 from Position : 0
```

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4.4 Queue Using LinkedList

```
#include<iostream>
#include<stdlib.h>
using namespace std;

struct node
{
    int data;
    struct node *next;
}

*list=NULL,*p,*s,*q,*r,*front=NULL,*rear=NULL;  /*p is used for
new node

class QueueLink
{
public:
int choice,value;

void get()
{
    do
    {
        cout<<"0.Exit\n1.Push\n2.Pop\n3.display\n";
        cout<<"Enter Your Choice : "<<" ";
        cin>>choice;
        switch(choice)
        {
            case 0:
                break;

            case 1:
                push() ;
```

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```
                break;

            case 2:
                pop();
                break;

            case 11:
                display();
                break;

            default:
                cout<<"invalid input"<<endl<<endl;
        }
    }while(choice!=0);
}

void push()
{
    cout<<"Enter the value : ";
    cin>>value;
    p=(struct node*)malloc(sizeof(node));
    p->data=value;
    if(list == NULL)
    {
        p->next=NULL;
        list=p;
        rear=p;
        front=p;
    }
    else
    {
        rear->next=p;
    }
}
```


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```
        p->next=NULL;
        rear=rear->next;

    }
    display();
}

void pop()
{
    cout<<"Delete Fisrt element "<<endl;
    if(front == NULL && rear == NULL)
    {
        cout<<"Empty List"<<endl<<endl;
    }
    else if (rear == front)
    {
        p=front;
        list=list->next;
        front=front->next;
        delete p;
    }
    else
    {
        p=front;
        list=list->next;
        front=front->next;
        delete p;
    }
    display();
}

void display()
```

Practical 04

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```
{  
    if(list==NULL)  
    {  
        cout<<endl<<"List is Empty "<<endl<<endl;  
    }  
    else  
    {  
        cout<<"The List is : ";  
        q=list;  
        while(q !=NULL)  
        {  
            cout<<q->data<<" | ---->";  
            q=q->next;  
        }  
        cout<<endl<<endl;  
    }  
}  
};  
  
int main()  
{  
    QueueLink s;  
    s.get();  
    return 0;  
}
```

Practical 04

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Output :

```
C:\Users\gupta\Desktop\Queue>g++ queuelink.cpp -o ql.exe

C:\Users\gupta\Desktop\Queue>ql.exe
0.Exit
1.Push
2.Pop
3.display
Enter Your Choice : 1
Enter the value : 10
The List is : 10|----->

0.Exit
1.Push
2.Pop
3.display
Enter Your Choice : 1
Enter the value : 20
The List is : 10|----->20|----->

0.Exit
1.Push
2.Pop
3.display
Enter Your Choice : 1
Enter the value : 30
The List is : 10|----->20|----->30|----->

0.Exit
1.Push
2.Pop
3.display
Enter Your Choice : 1
Enter the value : 40
The List is : 10|----->20|----->30|----->40|----->

0.Exit
1.Push
2.Pop
3.display
Enter Your Choice : 2
Delete Fisrt element
The List is : 20|----->30|----->40|----->
```

Practical 04

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```
0.Exit
1.Push
2.Pop
3.display
Enter Your Choice : 2
Delete Fisrt element
The List is : 30|----->40|----->
```

```
0.Exit
1.Push
2.Pop
3.display
Enter Your Choice : 2
Delete Fisrt element
The List is : 40|----->
```

```
0.Exit
1.Push
2.Pop
3.display
Enter Your Choice : 2
Delete Fisrt element
```

List is Empty

```
0.Exit
1.Push
2.Pop
3.display
Enter Your Choice : 0
```

C:\Users\gupta\Desktop\Queue>