

Output.

Program No: 8
Program to implement queue using linked list.

Main Menu

1. Insert

2. Delete

3. Display

4. Quit

Enter ur choice : 1

insert the element: 3

int info;

struct node *link;

3

3

3

3

3

3

3

3

3

3

3

3

3

3

3

Main Menu

1. Insert

2. Delete

3. Display

20

insert the element: 4

printf("In Main Menu \n");

printf("\n 1. Insert\n");

printf(" 2. Delete \n");

printf(" 3. Display \n");

printf(" 4. Quit \n");

printf("In Enter ur choice : ");

scanf("%d", &choice);

25

queue elements

deleted element 3

```
a->link = t;
```

```
a = t;
```

```
return;
```

Main Menu

1. Insert

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5. pop()

struct node * t,

if (p == NULL)

printf ("\n queue empty"),

else

t = p;

printf ("\n delete the old element", t->info),

p = p->link;

free(t);

3

return;

3

display()

struct node * pth;

pth = f;

if (f == NULL)

printf ("\n queue is empty"),

else

3

15

20

printf ("queue elements are : \n");

while (ptr != NULL)

{

printf ("%d \n", ptr->info);

5 ptr = ptr->link;

}

printf ("\n");

{

return ;

}

10

15

20

Main Menu

- 1. Insert
- 2. Delete
- 3. Display
- 4. Quit

Enter ur choice:1

insert the element3

Main Menu

- 1. Insert
- 2. Delete
- 3. Display
- 4. Quit

Enter ur choice:1

insert the element4

Enter ur choice:1

insert the element6

Main Menu

- 1. Insert**
- 2. Delete**
- 3. Display**
- 4. Quit**

Enter ur choice:3

queue elements are :

**3
4
6**

Main Menu

- 1. Insert**
- 2. Delete**
- 3. Display**
- 4. Quit**

Enter ur choice:

- 3. Display
- 4. Quit

Enter ur choice:2

delete the 3 element

Main Menu

- 1. Insert
- 2. Delete
- 3. Display
- 4. Quit

Enter ur choice:3

queue elements are :

4
6

Main Menu

- 1. Insert
- 2. Delete
- 3. Display
- 4. Quit

Enter ur choice: