```
#include<stdio.h>
#include<stdlib.h>
struct node {
   int data;
};
struct node * front = NULL;
struct node * rear = NULL;
void enqueue(int value) {
   struct node * ptr;
   ptr = (struct node * ) malloc(sizeof(struct node));
   ptr -> data = value;
   ptr -> next = NULL;
   if ((front == NULL) && (rear == NULL)) {
       front = rear = ptr;
       rear -> next = ptr;
       rear = ptr;
   printf("Node is Inserted\n\n");
int dequeue() {
       printf("\nUnderflow\n");
       struct node * temp = front;
       int temp data = front -> data;
       free(temp);
       return temp_data;
void display() {
   struct node * temp;
       printf("\nQueue is Empty\n");
```

```
printf("The queue is \n");
        while (temp) {
            printf("%d--->", temp -> data);
            temp = temp -> next;
        printf("NULL\n\n");
int main() {
   printf("\nImplementation of Queue using Linked List\n");
        printf("1.Enqueue\n2.Dequeue\n3.Display\n4.Exit\n");
        printf("\nEnter your choice : ");
        scanf("%d", & choice);
                printf("\nEnter the value to insert: ");
                scanf("%d", & value);
                enqueue (value);
            case 2:
                printf("Popped element is :%d\n", dequeue());
                display();
            case 4:
                printf("\nWrong Choice\n");
```

```
1.Enqueue
2.Dequeue
3.Display
4.Exit
Enter the value to insert: 1
Node is Inserted
1.Enqueue
2.Dequeue
3.Display
4.Exit
Enter the value to insert: 2
Node is Inserted
1.Enqueue
2.Dequeue
3.Display
4.Exit
The queue is
1--->2--->NULL
1.Enqueue
2.Dequeue
3.Display
4.Exit
Popped element is :1
1.Enqueue
2.Dequeue
3.Display
4.Exit
The queue is
2--->NULL
1.Enqueue
2.Dequeue
3.Display
4.Exit
Process returned 0 (0x0)
                            execution time : 15.932 s
Press any key to continue.
```

int pop(); sort

National display () into eleme

sort disp