```
#include <stdio.h>
#include<stdlib.h>
struct lnode
    int data;
   struct node* next;
};
typedef struct lnode node;
node *front= NULL, *rear=NULL;
void enqueue(int val)
   node *newNode = (node*) malloc(sizeof(node));
   newNode->data=val;
   newNode->next=NULL;
    if(rear==NULL)
        front=rear=newNode;
    else
       rear->next=newNode;
       rear=newNode;
}
void dequeue()
   node *temp;
    if(front==NULL)
       printf("Queue is empty...!");
       return;
    else if(rear==front)
       rear=front=NULL;
    else
        temp = front;
       front=front->next;
       free (temp);
void display()
    node *i;
    if(front==NULL && rear ==NULL)
        printf("\nQueue is empty...!");
    else
       printf("\nElements are:");
      node *i;
      for (i=front; i!=NULL; i=i->next)
           printf("%d\t",i->data);
```

```
int main(){
   int x, data;
   while (1)
     Queue operations:");
     scanf("%d",&x);
     switch(x)
     case 1:
          printf("Enter the inserting element:");
          scanf("%d", &data);
          enqueue (data);
          break;
     case 2:
          dequeue();
          break;
      case 3:
          display();
          break;
     case 4:
          printf("Exited...!");
          printf("\n----");
          exit(0);
      default:
        printf("Invalid choice.Please enter 1 to 4");
        break;
     }
  }
```