



NAME – RAJDEEP JAISWAL	DATE – 19 NOV 2021
BRANCH – BTECH CSE	SEC = 608 - A
UID -20BCS2761	Subject – DS Lab

AIM -

1. Program to implement Queue using linked list.

CODE IN TEXT FORM -

```
#include<stdlio.h>
#include<stdlib.h>
struct node
{
    int data;
    struct node *next;
};
struct node *front;
struct node *rear;
void insert();
void delete();
void delete();
void main ()
{
    int choice;
    while(choice != 4)
    {
}
```







```
Menu***************************
=======\n");
      printf("\n1.insert an element\n2.Delete an
element\n3.Display the queue\n4.Exit\n");
      printf("\nEnter your choice ?");
      scanf("%d",& choice);
      switch(choice)
         case 1:
         insert();
         break;
         case 2:
         delete();
         break:
         case 3:
         display();
         break;
         case 4:
         exit(0);
         break:
         default:
         printf("\nEnter valid choice??\n");
```







```
void insert()
    struct node *ptr;
    int item;
    ptr = (struct node *) malloc (sizeof(struct node));
    if(ptr == NULL)
        printf("\n0VERFLOW\n");
        return;
    else
        printf("\nEnter value?\n");
        scanf("%d",&item);
        ptr -> data = item;
        if(front == NULL)
            front = ptr;
            rear = ptr;
            front -> next = NULL;
            rear -> next = NULL;
        else
            rear -> next = ptr;
            rear = ptr;
            rear->next = NULL;
```





```
void delete ()
    struct node *ptr;
    if(front == NULL)
        printf("\nUNDERFLOW\n");
        return;
    else
        ptr = front;
        front = front -> next;
        free(ptr);
void display()
    struct node *ptr;
    ptr = front;
    if(front == NULL)
        printf("\nEmpty queue\n");
    else
        printf("\nprinting values ....\n");
```







```
while(ptr != NULL)
{
     printf("\n%d\n",ptr -> data);
     ptr = ptr -> next;
}
}
```

CODE IN COMPILER-

```
## Code | Feb | Each | Schedule | View | Co | Run | Terminal | Window | Neigh | Neigh | Register |
```







```
## Code File Edit Selection Vew Go Run Terminal Window Help

| Quantity | Code File | Code |
```







```
## Code File Edit Selection Van Go Run Terminal Windows Help

| Command | Code | Command | Code | Co
```

OUTPUT –









Evaluation Grid (To be created as per the SOP and Assessment guidelines by the faculty):

Sr. No.	Parameters	Marks Obtained	Maximum Marks
1.			
2.			
3.			

