**/\*Linear queue i.e lab number 2\*/**

**Method 1:**

#include<stdio.h>

#include<conio.h>

#include<process.h>

#define max 5

int rear=-1,front=0,count=0;

int queue[max];

void enqueue()

{

if(rear==max-1)

printf("The queue is full\n");

else

{

int a;

printf("Enter the data to be inserted\n");

scanf("%d",&a);

rear=rear+1;

queue[rear]=a;

count++;

}

}

void dequeue()

{

if(rear<front)

printf("The queue is empty\n");

else

{

printf("The data deleted from the queue is %d\n",queue[front]);

front++;

count--;

}

}

int main()

{

int choice;

clrscr();

do

{

if(count==0)

{

rear=-1;

front=0;

}

printf("\nEnter your choice:\n1.Enqueue\n2.Dequeue\n3.Exit\n");

scanf("%d",&choice);

switch(choice)

{

case 1:

enqueue();

break;

case 2:

dequeue();

break;

case 3:

exit(0);

}

}while(choice<=3);

getch();

return 0;

}

**/\*Linear queue i.e lab number 2\*/**

**Method: 2**

#include<stdio.h>

#include<conio.h>

#include<process.h>

#define max 5

int rear=0,front=0;

int queue[max];

void enqueue()

{

if(rear==max)

printf("The queue is full\n");

else

{

int a;

printf("Enter the data to be inserted\n");

scanf("%d",&a);

queue[rear]=a;

rear=rear+1;

}

}

void dequeue()

{

if(rear==front)

printf("The queue is empty\n");

else

{

printf("The data deleted from the queue is %d\n",queue[front]);

front++;

}

}

int main()

{

int choice;

clrscr();

do

{

printf("\nEnter your choice:\n1.Enqueue\n2.Dequeue\n3.Exit\n");

scanf("%d",&choice);

switch(choice)

{

case 1:

enqueue();

break;

case 2:

dequeue();

break;

case 3:

exit(0);

}

}while(choice<=3);

getch();

return 0;

}