

#include<stdio.h>	
	#include<stdlib.h>
	#define max 5
	int insertq (int queue[max], int *rear , int *data,int *front)
	{
	if (*rear == max -1)
	return(-1);
	else
	{ if(*front== -1)
	*front=0;
	*rear = *rear + 1;
	queue[*rear] = *data;
	return(1);
	}
	}
	int delq(int queue[max], int *front, int *rear)
	{
	if (*front == *rear)
	return(-1);
	else
	{
	printf("deleted:%d",queue[*front]);
	(*front)++;
	if(*front==*rear)
	*front=*rear=-1;
	return(1);

	}
	}
	void display(int queue[max],int *front,int *rear)
	{
	int i;
	if(*rear== -1)
	printf("Queue is empty\n");
	else
	{
	printf("\n Queue contents:");
	for(i=*front;i<=*rear;i++)
	printf("%d", queue[i]);
	}
	}
	int main()
	{
	int queue[max],data,i;
	int front,rear,reply,option;
	front = -1;
	rear = -1;
	printf("\tMenu");
	printf("\n-----");
	printf("\n 1. Insert element in queue");
	printf("\n 2. Delete element from queue");
	printf("\n 3.Display");
	printf("\n 4. Exit");
	printf("\n-----");
	do
	{
	printf("\nChoose operation : ");
	scanf("%d",&option);
	switch(option)
	{
	case 1 :
	printf("\nEnter Number : ");

	scanf("%d",&data);
	reply = insertq(queue,&rear,&data,&front);
	if (reply == - 1)
	printf("Queue is full");
	break;
	case 2 :
	reply = delq(queue,&front,&rear);
	if (reply == -1)
	printf("Queue is empty ");
	break;
	case 3:
	display(queue,&front,&rear);
	break;
	case 4 : exit(0);
	}
	}while(option!=4);
	}

Menu

- 1. Insert element in queue
- 2. Delete element from queue
- 3. Display
- 4. Exit

Choose operation : 1

Enter Number : 12

Choose operation : 1

Enter Number : 24

Choose operation : 3

Queue contents:12 24

Choose operation : 2

deleted:12

Choose operation : 3

Queue is empty

Choose operation : 4