```
//queue using array
#include<stdio.h>
#include<conio.h>
#define SIZE 5
int i,rear,front,item,s[SIZE];
void insert(int item,int s[]);
void del(int s[]);
void display(int s[]);
void main()
{
int ch;
clrscr();
front=0;
rear=-1;
do
{
	printf("\n\n 1.INSERTION \n 2.DELETION \n 3.EXIT \n");
	printf("\nENTER YOUR CHOICE : ");
	scanf("%d",&ch);
	switch(ch)
	{
	case 1:
	printf("\n\t INSERTION \n");
	if(rear>=SIZE-1)
	{
	printf("\t\nQUEUE IS FULL\n");
	}
	else
	{
	printf("\nENTER AN ELEMENT : ");
	scanf("%d",&item);
	insert(item,s);
	}
	display(s);
	break;
	case 2:
	printf("\n\t DELETION \n");
	if(front>rear)
	{
	printf("\t\nQUEUE IS EMPTY\n");
	}
	else
```

```
        {
        del(s);
        }
        display(s);
        break;
}
}while(ch!=3);
getch();
}
void insert(int item,int s[])
{
if(rear<SIZE)
{
rear=rear+1;
s[rear]=item;
}
}
void del(int s[])
{
int i;
item=s[front];
for(i=0;i<=rear;i++)
 s[i]=s[i+1];
 rear--;
printf("\n DELETED ELEMENT IS %d\n\n",item);
}

void display(int s[])
{
printf("\n");
for(i=front;i<=rear;i++)
{
printf(" \t %d",s[i]);
}
}
```

-->>SAMPLE INPUT OUTPUT:

1.INSERTION
2.DELETION
3.EXIT

```
ENTER YOUR CHOICE : 1

                INSERTION

ENTER AN ELEMENT : 10

10

1.INSERTION
2.DELETION
3.EXIT

ENTER YOUR CHOICE : 1

                INSERTION

ENTER AN ELEMENT : 20

10   20

1.INSERTION
2.DELETION
3.EXIT

ENTER YOUR CHOICE : 1

                INSERTION

ENTER AN ELEMENT : 30

10    20    30

1.INSERTION
2.DELETION
3.EXIT

ENTER YOUR CHOICE : 1

                INSERTION

QUEUE IS FULL

10    20    30
```

1.INSERTION
2.DELETION
3.EXIT

ENTER YOUR CHOICE : 2

DELETION

DELETED ELEMENT IS 10

20 30

1.INSERTION
2.DELETION
3.EXIT

ENTER YOUR CHOICE : 2

DELETION

DELETED ELEMENT IS 20

30

1.INSERTION
2.DELETION
3.EXIT

ENTER YOUR CHOICE : 2

DELETION

DELETED ELEMENT IS 30

1.INSERTION
2.DELETION
3.EXIT

ENTER YOUR CHOICE : 2

DELETION

QUEUE IS EMPTY