```
/*queue using arrays */

#include <stdio.h>
#include <conio.h>
#include <malloc.h>
#include <stdlib.h>

#define MAX 10

int q[MAX];
int rear=0;
int front=0;
int full=0;
int empty=1;

        void  ins(int);
        void print(void);
        int del(void);

void main(void)

{       int opt,ch,y;
        clrscr();
        do
        {
        clrscr();
        printf("\n1. Insert\n");
        printf("\n2. Delete\n");
        printf("\n3. Print\n");
        printf("\n4. Exit\n");
        printf("\n\n\t Enter your Choice\n");
        scanf("%d",&opt);

switch(opt)
{
        case 1:
                printf("\nEnter item to Push\n");
                scanf("%d", &y);
                ins(y);
                break;

        case 2:
                y=del();
                printf("Deleted item is : %d" ,y);
                break;
         case 3:

                printf("\nThe Given List is\n");
                print();
}
        printf("\n Continue 1/0");
        scanf("%d",&ch);
}while(ch==1);
}

void print(void)
{
        int i;
        for(i=front; i<=rear; i++)
                printf("%d   ," ,q[i]);
}
```

```
void  ins(int x)
{

        if(full)
        {
        printf("\nQueue Full");
        return;
        }
        else
        {
        q[rear]=x;
        rear++;
        empty=0;
        if(rear==MAX)
                full=1;
        }
        return;
   }


int del(void)
{       int x;

        if(empty)
        {
        printf("\nQueue is Empty");
        exit(0);
        }
        else
        {
        x=q[front];
        front++;
        full=0;
        if(front==rear)
                empty=1;
        }
        return(x);
}
```