

```

#include<stdio.h>
#include<stdlib.h>
#define MAX 5

int f = 0 , r = -1 , a[MAX] , count = 0;

void insert() {
    if(count == MAX)
        printf("Queue is full.\n");
    else {
        int item;
        printf("Enter the element to be inserted : ");
        scanf("%d" , &item);
        r = (r+1)%MAX;
        a[r] = item;
        printf("%d succesffully inserted.\n" , item);
        count++;
    }
}

void delete() {
    if (count == 0)
        printf("Queue is empty.\n");
    else {
        printf("Element %d successfully deleted.\n" , a[f]);
        f = (f+1)%MAX;
        count--;
    }
}

void display() {
    if (count == 0)
        printf("Queue is empty.\n");
    else {
        int temp = count;
        printf("Elements of queue are : ");
        for(int i = f ; temp > 0 ; i=(i+1)%MAX) {
            printf("%d " , a[i]);
            temp--;
        }
        printf("\n");
    }
}

void main() {
    int choice , flag = 1 ;
    printf("Enter the operation to be performed.\n");
    while(flag) {
        printf("1.Insert \t 2.Delete \t 3.Display \t 4.Exit :
");
        scanf("%d" , &choice);
        switch(choice) {
            case 1 : insert();
                    break;

            case 2 : delete();

```

```
                break;

        case 3 : display();
                break;

        case 4 : flag = 0 ;
                break;

        default : printf("Invalid input.\n");
                break;
    }
}
}
```