```c
#include <stdio.h>

#include <stdlib.h>

#define MAX_SIZE 5

int queue[MAX_SIZE];

int front = -1, rear = -1;


void enqueue() {
    int n;
    printf("Enter number: ");
    scanf("%d", &n);
    if (rear == MAX_SIZE - 1) {
        printf("Queue Overflow");
        exit(1);
    }

    if (front == -1) {
        front = 0;  // If the queue is empty, set front to 0
    }

    rear++;
    queue[rear] = n;

    printf("Inserted %d into the queue.\n", n);
}

void dequeue() {
    if (front == -1) {
        printf("Queue Underflow");
```

```c
        return;
    }

    printf("Deleted %d from the queue.\n", queue[front]);

    if (front == rear) {
        // If there was only one element in the queue, reset front and rear
        front = -1;
        rear = -1;
    } else {
        front++;
    }
}

void display() {
    if (front == -1) {
        printf("Queue Underflow.\n");
        exit(1);
    }

    printf("Elements in the queue: ");
    for (int i = front; i <= rear; i++) {
        printf("%d ", queue[i]);
    }
    printf("Shruti Khandelia 1BM22CS274");
    exit(1);
}

void main() {
    while(1){
        int choice;
```

```c
printf("Enter 1 for Enqueue \nEnter 2 for Dequeue \nEnter 3 for Display");

printf("Enter your choice: ");

scanf("%d", &choice);

switch(choice){

    case 1: enqueue();

        break;

    case 2: dequeue();

    break;

    case 3:display();

    break;

    }

  }

}
```

```
Enter 1 for Enqueue
Enter 2 for Dequeue
Enter 3 for DisplayEnter your choice: 1
Enter number: 23
Inserted 23 into the queue.
Enter 1 for Enqueue
Enter 2 for Dequeue
Enter 3 for DisplayEnter your choice: 1
Enter number: 46
Inserted 46 into the queue.
Enter 1 for Enqueue
Enter 2 for Dequeue
Enter 3 for DisplayEnter your choice: 2
Deleted 23 from the queue.
Enter 1 for Enqueue
Enter 2 for Dequeue
Enter 3 for DisplayEnter your choice: 3
Elements in the queue: 46 Shruti Khandelia 1BM22CS274
```