

```

#include <stdio.h>
#define MAX 5

int queue[MAX];
int front = -1, rear = -1;

void enqueue(int value) {
    if (rear == MAX - 1) {
        printf("Queue Overflow!\n");
    } else {
        if (front == -1)
            front = 0;
        rear++;
        queue[rear] = value;
        printf("Inserted %d\n", value);
    }
}

void dequeue() {
    if (front == -1 || front > rear) {
        printf("Queue Underflow!\n");
    } else {
        printf("Deleted %d\n", queue[front]);
        front++;
    }
}

void display() {
    if (front == -1 || front > rear) {
        printf("Queue is Empty.\n");
    } else {
        printf("Queue Elements: ");
        for (int i = front; i <= rear; i++) {
            printf("%d ", queue[i]);
        }
        printf("\n");
    }
}

int main() {
    int choice, value;

    while (1) {
        printf("\nQueue Operations:\n");
        printf("1. ENQUEUE\n2. DEQUEUE\n3. DISPLAY\n4. EXIT\n");
        printf("Enter your choice: ");
        scanf("%d", &choice);
    }
}

```

```
switch (choice) {  
case 1:  
    printf("Enter value to insert: ");  
    scanf("%d", &value);  
    enqueue(value);  
    break;  
case 2:  
    dequeue();  
    break;  
case 3:  
    display();  
    break;  
case 4:  
    return 0;  
default:  
    printf("Invalid choice!\n");  
}  
}  
}
```

```
C:\Users\user\OneDrive\Desk X + v
Enter value to insert: 10
Inserted 10

Queue Operations:
1. ENQUEUE
2. DEQUEUE
3. DISPLAY
4. EXIT
Enter your choice: 1
Enter value to insert: 20
Inserted 20

Queue Operations:
1. ENQUEUE
2. DEQUEUE
3. DISPLAY
4. EXIT
Enter your choice: 3
Queue Elements: 10 20

Queue Operations:
1. ENQUEUE
2. DEQUEUE
3. DISPLAY
4. EXIT
Enter your choice: 4

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Process exited after 12.56 seconds with return value 0
Press any key to continue . . .
```