QUEUE IMPLEMENTATION

CODE:

```
#include <stdio.h>
#define SIZE 5
int queue[SIZE];
int front = -1, rear = -1;
void enqueue(int value) {
    if (rear == SIZE - 1)
        printf("Queue is full\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 is empty\n");
    else {
        printf("Deleted %d\n", queue[front]);
        front++;
    }
}
void display() {
    if (front == -1 || front > rear)
        printf("Queue is empty\n");
    else {
```

```
        printf("Queue: ");
         for (int i = front; i <= rear; i++)
            printf("%d ", queue[i]);
        printf("\n");
    }
}
int main() {
    enqueue(20);
    enqueue(40);
    enqueue(60);
    display();
    dequeue();
    display();
    enqueue(80);
    enqueue(100);
          enqueue(150);
    display();
    return 0;
}
```

OUTPUT: