```
#include <stdio.h>
#define SIZE 5

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

int isFull()
{
    return (rear + 1) % SIZE == front;
}

int isEmpty()
{
    return front == -1;
}
```

```
void enqueue(int data)
{
  if (isFull()) {
    printf("Queue overflow\n");
    return;
  }
  if (front == -1) {
    front = 0;
  }
  rear = (rear + 1) % SIZE;
  queue[rear] = data;
  printf("Element %d inserted\n", data);
}
int dequeue()
{
  if (isEmpty()) {
    printf("Queue underflow\n");
    return -1;
  }
  int data = queue[front];
  if (front == rear) {
    front = rear = -1;
  } else {
    front = (front + 1) % SIZE;
  }
  return data;
}
```

```
void traversal()
{
  if (isEmpty()) {
    printf("Queue is empty\n");
    return;
  }
  printf("Queue elements: ");
  int i = front;
  while (i != rear) {
    printf("%d ", queue[i]);
    i = (i + 1) \% SIZE;
  }
  printf("%d\n", queue[rear]);
}
int main()
{
  int choice, data;
  while (1) {
    printf("\nCircular Queue Operations:\n");
    printf("1. Enqueue\n");
    printf("2. Dequeue\n");
    printf("3. Traversal Queue\n");
    printf("4. Exit\n");
    printf("Enter your choice: ");
    scanf("%d", &choice);
```

```
switch (choice) {
      case 1:
        printf("Enter value to enqueue: ");
        scanf("%d", &data);
        enqueue(data);
         break;
      case 2:
        data = dequeue();
        if (data != -1)
           printf("Dequeued element: %d\n", data);
         break;
      case 3:
        traversal();
         break;
      case 4:
         return 0;
      default:
        printf("Invalid choice.\n");
    }
  }
  return 0;
}
```