QUEUE USING ARRAY:

```
#include <stdio.h>
#include <stdlib.h>
#define size 5
int queue[size];
int front=0,rear=0;
void enqueue(int val){
        if (rear==size){
                printf("queue overflow\n");
                return;
        }
        queue[rear]=val;
        rear++;
        printf("Inserted %d into queue.\n", val);
}
void dequeue(){
        if(rear==0&&front==0){
                printf("queue empty\n");
                return;
        }
        printf("Deleted %d from queue.\n", queue[front]);
        front++;
}
void display(){
        if(rear==0&&front==0){
                printf("queue empty\n");
                return;
        }
        printf("Queue elements: ");
   for (int i=front;i<=rear;i++)
      printf("%d ",queue[i]);
   printf("\n");
}
int main(){
        int choice,value;
        printf("QUEUE OPERATION\n");
        while (1) {
      printf("\n1. 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:
```

```
            printf("Exiting program...\n");
            exit(0);
        default:
            printf("\n? Invalid choice! Try again.\n");
    }
            }
  return 0;
}
```

OUTPUT: