/*Date: 19-7-25

A college help desk uses a ticketing system to manage student queries. Students are served in the order they raise their queries — First-Come, First-Served (FIFO). Implement this system using a Queue with array-based implementation and switch-case menu.

Features to Implement

1. Raise a Ticket – (Enqueue)

2. Resolve a Ticket – (Dequeue)

3. Display All Tickets

4. Exit*/

```
package julyhometask;
import java.util.*;
class TicketSystem
{
	int front,rear,capacity;
	String ticketArray[];
	TicketSystem(int size)
	{
		front=rear=0;
		capacity=size;
		ticketArray=new String[capacity];

	}
	public void enqueue(String query)
	{
		if(rear==capacity)
		{
			System.out.println("The Ticket raising system is full");

		}
		else
		{
```

```
                ticketArray[rear]=query;
                rear=rear+1;
                System.out.println("The ticket:"+query+" is raised successfully");

        }

}
public void dequeue()
{
        if(front==rear)
        {
                System.out.println("The Ticket raising system is empty");

        }
        System.out.println("The ticket "+ ticketArray[front]+" is resolved successfully");
        for(int i=0;i<rear-1;i++)
        {
                ticketArray[i]=ticketArray[i+1];

        }
        rear=rear-1;

}
void display()
{
        if(front==rear)
        {
                System.out.println("The Ticket raising system is empty");

        }
        else
```

```
		{
			System.out.println("The ticket systems have the following queries from the users:");
		}
			for(int i=front;i<rear;i++)
			{
				System.out.println(ticketArray[i]);
			}
		}
	}


	public class july19ht


	{
		public static void main(String[] args)
	{
		Scanner sc=new Scanner(System.in);
		System.out.println("Enter the maximum queries for the system");
		int size=sc.nextInt();
		TicketSystem t=new TicketSystem(size);
		int choice;
		do
		{
		System.out.println("1.Ticket raisal\n2.Ticket Resolve\n3.Display tickets\n4.Exit");
		System.out.println("Enter the choice");
		choice=sc.nextInt();
		sc.nextLine();
		switch(choice)
		{
		case 1:
```

```
                System.out.println("Enter the query");
                String query=sc.nextLine();
                t.enqueue(query);
                break;
        case 2:
                t.dequeue();
                break;
        case 3:
                t.display();
                break;
        case 4:
                System.out.println("--Exiting---");
                break;
        default:
                System.out.println("Enter a=valid operation");
                break;
        }

        }while(choice!=4);
}
}
```