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import java.util.*;

public class TRing{

    public static void main(String[] args){
        Scanner sc = new Scanner(System.in);

        System.out.print("Enter Number Of Nodes You Want In The Ring :
");
        int n = sc.nextInt();

        System.out.println("Ring Formed Is As Below: ");
        for(int i=0; i<n; i++){
            System.out.print(i + " ");
        }

        System.out.println("0");

        int choice = 0;

        do{
            System.out.print("Enter Sender : ");
            int sender = sc.nextInt();

            System.out.print("Enter Receiver : ");
            int receiver = sc.nextInt();

            System.out.print("Enter Data To Send : ");
            int data = sc.nextInt();

            int token = 0;

            System.out.print("Token Passing : ");

            for(int i=token; i<sender; i++){
                System.out.print(" " + i + "->");
            }

            System.out.println(" " + sender);
            System.out.println("Sender:" + sender + " Sending Data:
" + data);

            for(int i=sender; i!=receiver; i = (i+1)%n){
                System.out.println("Data: " + data + "
Forwarded By: " + i);
            }

            System.out.println("Receiver: " + receiver + " Received
The Data: " + data);

            token = sender;

            System.out.print("Do You Want To Send Data Again? If
YES Enter 1, If NO Enter 0: ");

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        choice = sc.nextInt();  
    }while(choice == 1);  
}  
}
```

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shubhangi@DESKTOP-DDIBQ9R:~$ java TRing
Enter Number Of Nodes You Want In The Ring : 5
Ring Formed Is As Below:
0 1 2 3 4 0
Enter Sender : 0
Enter Receiver : 4
Enter Data To Send : 65
Token Passing : 0
Sender:0 Sending Data: 65
Data: 65 Forwarded By: 0
Data: 65 Forwarded By: 1
Data: 65 Forwarded By: 2
Data: 65 Forwarded By: 3
Receiver: 4 Received The Data: 65
Do You Want To Send Data Again? If YES Enter 1, If NO Enter 0: 0
shubhangi@DESKTOP-DDIBQ9R:~$
```