

Code:

1. tokenRing.java

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Get Started tokenRing.java 2 X
J tokenRing.java > TokenRing > main(String[])
1 import java.util.Scanner;
2
3 class TokenRing {
4     public static void main(String[] args) throws Throwable{
5         System.out.println("Enter the number of processes: ");
6         Scanner sc = new Scanner(System.in);
7         System.out.println("Enter n : ");
8         int n = sc.nextInt();
9         int token = 0;
10        int ch = 1;
11        int sender, reciever;
12        String message;
13        boolean message_pass = false;
14        System.out.println("Initializing ring");
15        for(int i = 0; i < n; i++) {
16            System.out.println(" " + i);
17        }
18        System.out.println("Enter sender : ");
19        sender = sc.nextInt();
20        System.out.println("Enter reciever : ");
21        reciever = sc.nextInt();
22        sc.nextLine();
23        System.out.println("Enter message : ");
24        message = sc.nextLine();
25        for(token = 0; token < n; token++) {
26            System.out.println("Token at process " + token);
27            if(token == sender) {
28                System.out.println("Sender found");
29                System.out.println("Attaching message");
30                message_pass = true;
31            } else if (token == reciever) {
32                System.out.println("Token arrived at reciever");
33                System.out.println("Message " + message + " recieved");
34                message_pass = false;
35            }
36            if(message_pass) {
37                System.out.println(token + " passing message " + message + " to " + (token + 1)%n);
38            }
39        }
40    }
41 }
```

Output:

```
varadmash@varadmash-G3-3590:~/LP5_lab/Assignment5$ javac tokenRing.java
varadmash@varadmash-G3-3590:~/LP5_lab/Assignment5$ java TokenRing
Enter the number of processes:
Enter n :
5
Initializing ring
0
1
2
3
4
Enter sender :
2
Enter reciever :
0
Enter message :
Bravo Zulu
Token at process 0
Token arrived at reciever
Message Bravo Zulu recieved
Token at process 1
Token at process 2
Sender found
Attaching message
2 passing message Bravo Zulu to 3
Token at process 3
3 passing message Bravo Zulu to 4
Token at process 4
4 passing message Bravo Zulu to 0
```