Program:

```
import java.util.*;
public class TokenRing{
  public static void main(String[] args)
    Scanner sc = new Scanner (System.in);
    System.out.println("Enter the message: ");
    String message = sc.nextLine();
    System.out.println("Enter number of processes: ");
    int n=sc.nextInt();
    System.out.println("The processes are: ");
    for(int i=1;i<=n;i++)
    {
       System.out.print(i + " ");
    }
    System.out.println("1" + "\n");
    System.out.println("Enter the sender: ");
    int sender = sc.nextInt();
    System.out.println("Enter the receiver: ");
    int receiver = sc.nextInt();
    for (int i=1;i<=n;i++)
       if(i== sender)
         System.out.println("Sender process-> " + sender);
         System.out.println("The token is received by the sender");
         System.out.println("The message to be sent: " + message);
         break;
      }
    for (int i=sender+1; i<=n; i= (i%n)+1)
       if(i== receiver)
      {
         System.out.println("\nReceiver process-> " + receiver);
         System.out.println("The message is received : " + message);
         break;
      }
    }
  }
}
```

Output

```
C:\Users\payal\Downloads\DS_Lab\DS5>javac TokenRing.java

C:\Users\payal\Downloads\DS_Lab\DS5>java TokenRing
Enter the message:
Hello Krishna Pensalwar
Enter number of processes:

5
The processes are:
1 2 3 4 5 1

Enter the sender:
1
Enter the receiver:
3
Sender process- 1
The token is received by the sender
The message to be sent: Hello Krishna Pensalwar

Receiver process-> 3
The message is received : Hello Krishna Pensalwar

C:\Users\payal\Downloads\DS_Lab\DS5>_
```