```
import java.io.*;
import java.util.*;
class tokenring {
  public static void main(String args[]) throws Throwable {
     Scanner scan = new Scanner(System.in);
     System.out.println("Enter the num of nodes:");
     int n = scan.nextInt();
     int m = n - 1;
     // Decides the number of nodes forming the ring
     int token = 0;
     int ch = 0, flag = 0;
     for (int i = 0; i < n; i++) {
       System.out.print(" " + i);
     }
     System.out.println(" " + 0);
     do{
       System.out.println("Enter sender:");
       int s = scan.nextInt();
       System.out.println("Enter receiver:");
       int r = scan.nextInt();
       System.out.println("Enter Data:");
       int a;
```

```
a = scan.nextInt();
System.out.print("Token passing:");
for (int i = token, j = token; (i % n) != s; i++, j = (j + 1) % n) {
  System.out.print(" " + j + "->");
}
System.out.println(" " + s);
System.out.println("Sender " + s + " sending data: " + a);
for (int i = s + 1; i != r; i = (i + 1) \% n) {
  System.out.println("data " + a + " forwarded by " + i);
System.out.println("Receiver " + r + " received data: " + a +"\n");
token = s;
do{
  try {
     if (flag == 1)
               System.out.print("Invalid Input!!...");
     System.out.print("Do you want to send again?? enter 1 for Yes and 0 for No: ");
     ch = scan.nextInt();
     if( ch != 1 \&\& ch != 0 )
               flag = 1;
     else
               flag = 0;
  } catch (InputMismatchException e){
     System.out.println("Invalid Input");
  }
```

```
} while( ch != 1 && ch != 0 );
} while( ch == 1 );
}
```

• OUTPUT:

```
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```