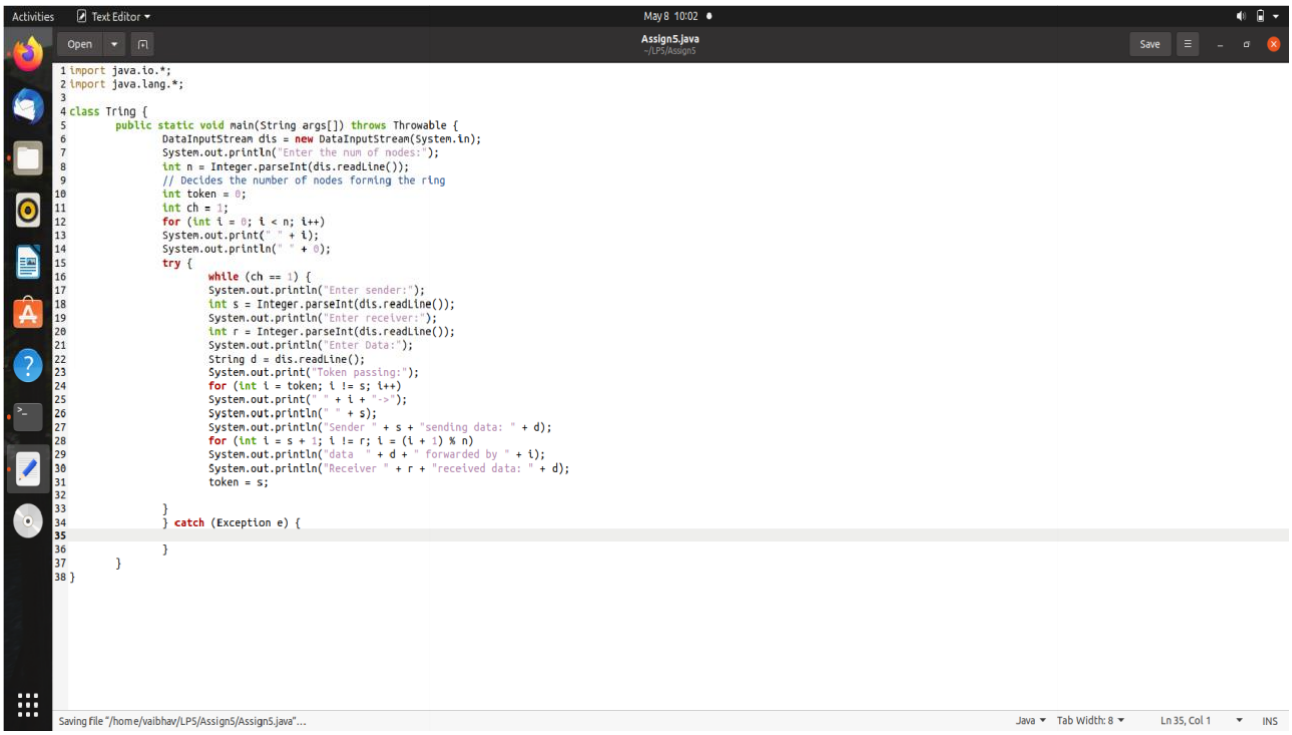
CODE IMPLEMENTATION :

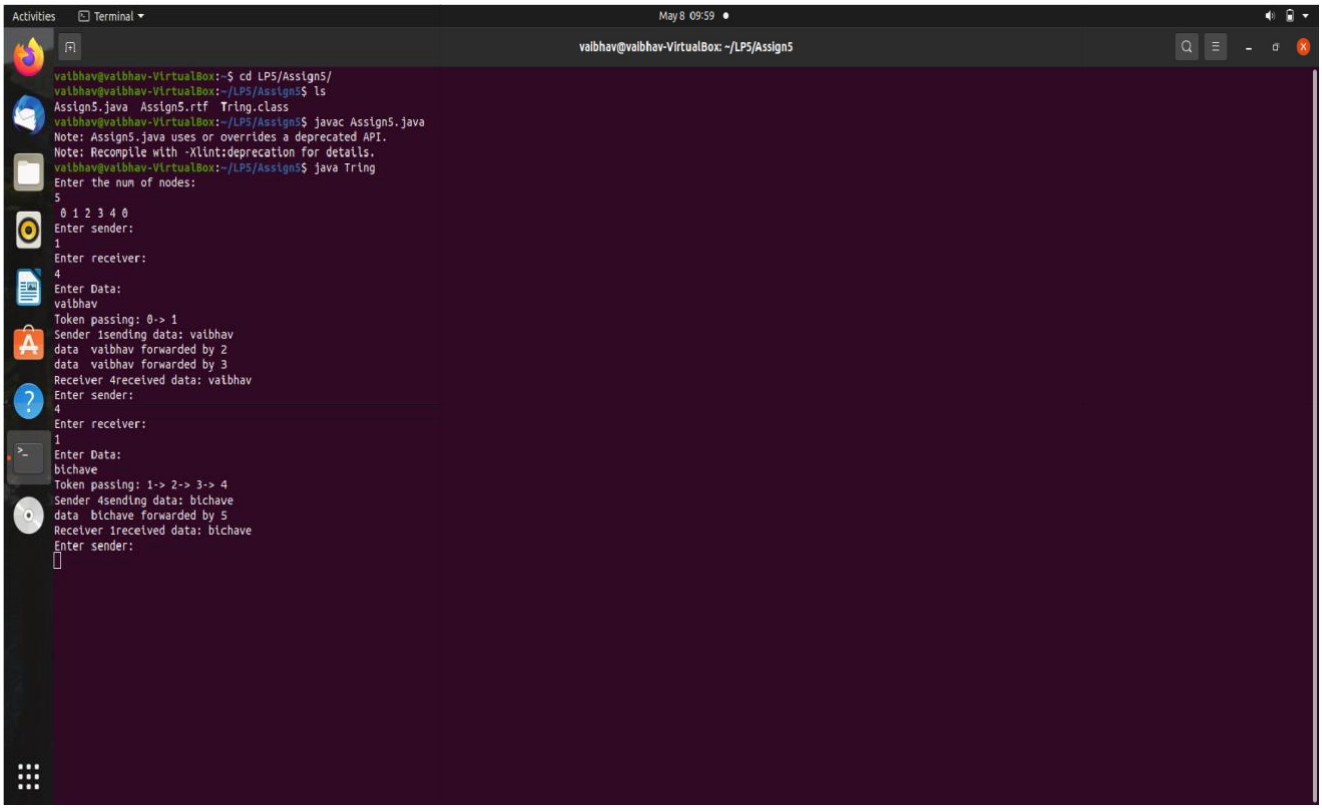



```
import java.io.*;
import java.lang.*;

class Tring {
        public static void main(String args[]) throws Throwable {
                DataInputStream dis = new DataInputStream(System.in);
                System.out.println("Enter the num of nodes:");
                int n = Integer.parseInt(dis.readLine());
                // Decides the number of nodes forming the ring
                int token = 0;
                int ch = 1;
                for (int i = 0; i < n; i++)
                System.out.print(" " + i);
                System.out.println(" " + 0);
                try {
                        while (ch == 1) {
                        System.out.println("Enter sender:");
                        int s = Integer.parseInt(dis.readLine());
                        System.out.println("Enter receiver:");
                        int r = Integer.parseInt(dis.readLine());
                        System.out.println("Enter Data:");
                        String d = dis.readLine();
                        System.out.print("Token passing:");
                        for (int i = token; i != s; i++)
                        System.out.print(" " + i + "->");
                        System.out.println(" " + s);
                        System.out.println("Sender " + s + "sending data: " + d);
                        for (int i = s + 1; i != r; i = (i + 1) % n)
                        System.out.println("data  " + d + " forwarded by " + i);
                        System.out.println("Receiver " + r + "received data: " + d);
                        token = s;

                }
                } catch (Exception e) {

                }
        }
}
```




```
vaibhav@vaibhav-VirtualBox:~$ cd LP5/Assign5/
vaibhav@vaibhav-VirtualBox:~/LP5/Assign5$ ls
Assign5.java  Assign5.rtf  Tring.class
vaibhav@vaibhav-VirtualBox:~/LP5/Assign5$ javac Assign5.java
Note: Assign5.java uses or overrides a deprecated API.
Note: Recompile with -Xlint:deprecation for details.
vaibhav@vaibhav-VirtualBox:~/LP5/Assign5$ java Tring
Enter the num of nodes:
5
 0 1 2 3 4 0
Enter sender:
1
Enter receiver:
4
Enter Data:
vaibhav
Token passing: 0-> 1
Sender 1sending data: vaibhav
data  vaibhav forwarded by 2
data  vaibhav forwarded by 3
Receiver 4received data: vaibhav
Enter sender:
4
Enter receiver:
1
Enter Data:
bichave
Token passing: 1-> 2-> 3-> 4
Sender 4sending data: bichave
data  bichave forwarded by 5
Receiver 1received data: bichave
Enter sender:
```