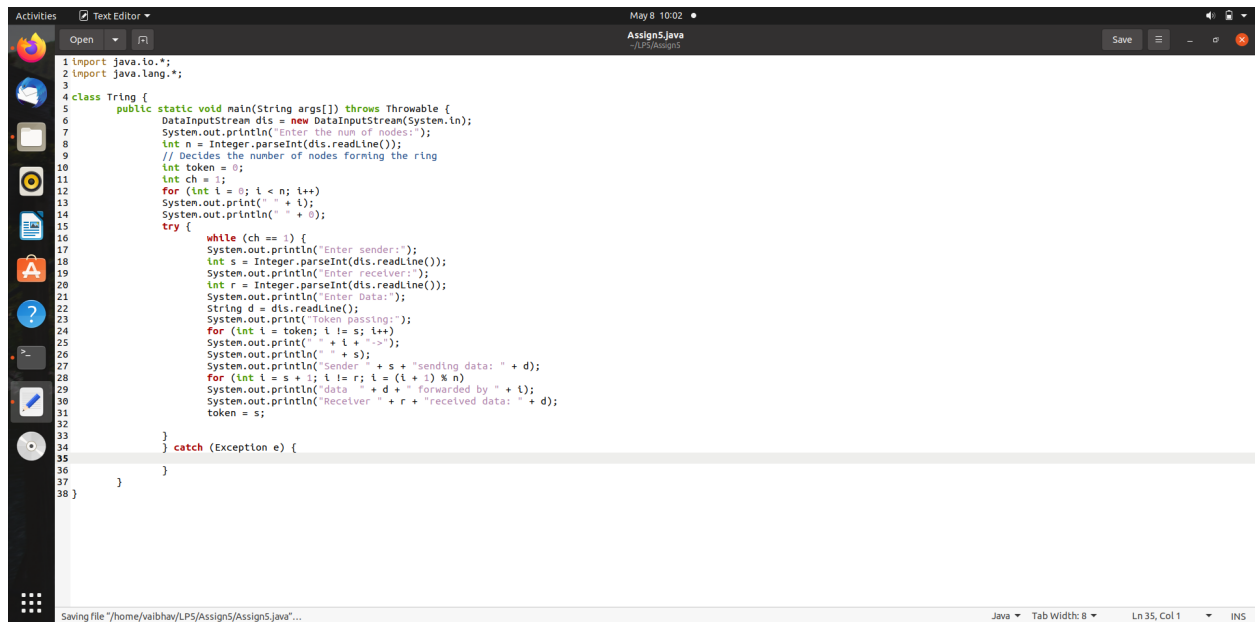


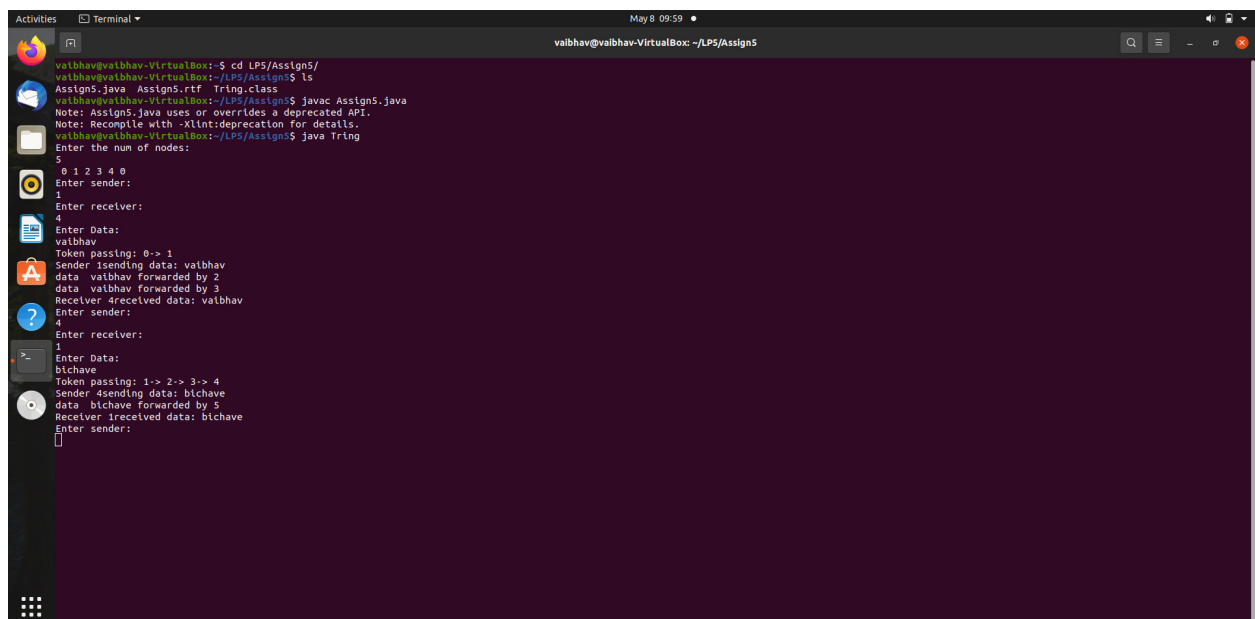
Name- Vaibhav Bichave

Roll no.-43209

CODE IMPLEMENTATION :



```
1 import java.io.*;
2 import java.lang.*;
3
4 class Tring {
5     public static void main(String args[]) throws Throwable {
6         DataInputStream dis = new DataInputStream(System.in);
7         System.out.println("Enter the num of nodes:");
8         int n = Integer.parseInt(dis.readLine());
9         // Decides the number of nodes forming the ring
10        int token = 0;
11        int ch = 1;
12        for (int i = 0; i < n; i++)
13            System.out.print(" " + i);
14        System.out.println(" " + 0);
15        try {
16            while (ch == 1) {
17                System.out.println("Enter sender:");
18                int s = Integer.parseInt(dis.readLine());
19                System.out.println("Enter receiver:");
20                int r = Integer.parseInt(dis.readLine());
21                System.out.println("Enter Data:");
22                String d = dis.readLine();
23                System.out.print("Token passing:");
24                for (int i = token; i != s; i++)
25                    System.out.print(" " + i + "->");
26                System.out.println(" " + s);
27                System.out.println("Sender " + s + " sending data: " + d);
28                for (int i = s + 1; i != r; i = (i + 1) % n)
29                    System.out.println("data " + d + " forwarded by " + i);
30                System.out.println("Receiver " + r + " received data: " + d);
31                token = s;
32            }
33        } catch (Exception e) {
34        }
35    }
36 }
37
38 }
```



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

```