Exp 7 Token Based

class CriticalSection implements Runnable {

private static int counter = 0;

private final int id;

public CriticalSection(int id) {

this.id = id;

}

@Override

public void run() {

while (counter < 10) {

synchronized (CriticalSection.class) {

if (counter % 5 == id) {

System.out.println("Node " + id + " is in critical section");

counter++;

}

}

}

}

}

public class Main {

public static void main(String[] args) {

Thread[] threads = new Thread[5];

for (int i = 0; i < 5; i++) {

threads[i] = new Thread(new CriticalSection(i));

threads[i].start();

}

}

}

Op

Node 0 is in critical section

Node 1 is in critical section

Node 2 is in critical section

Node 3 is in critical section

Node 4 is in critical section

Node 0 is in critical section

Node 1 is in critical section

Node 2 is in critical section

Node 3 is in critical section

Node 4 is in critical section

Node 0 is in critical section

=== Code Execution Successful ===