

## EXPERIMENT 9

### **9. Write a program for congestion control using leaky bucket algorithm**

#### **PROGRAM:**

```
print("Enter bucket size, outgoing rate, number of inputs and incoming size")

bucketsize = int(input())

outgoing = int(input())

n = int(input())

incoming = int(input())

store=0

while n!= 0:

    print("Incoming size is ", incoming)

    if incoming <= (bucketsize-store):

        store += incoming

        print("Bucket buffer size is ",store," out of ", bucketsize)

    else:

        print("Packet loss : ",(incoming-(bucketsize-store)))

        store=bucketsize

        print("Bucket buffer size is ",store," out of ", bucketsize)

    store -= outgoing;

    print("After outgoing: " ,store," packets left out of ", bucketsize , "in buffer")

n=n-1
```

**OUTPUT:**

Enter bucket size, outgoing rate, number of inputs and incoming size

300

50

2

200

Incoming size is 200

Bucket buffer size is 200 out of 300

After outgoing: 150 packets left out of 300 in buffer

Incoming size is 200

Packet loss: 50

Bucket buffer size is 300 out of 300

After outgoing: 250 packets left out of 300 in buffer