

## 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