

## Cycle II

## LAB 14:

**Aim : Write a program for congestion control using Leaky bucket algorithm.**

1.  $if (inbound \leq capacity)$   
 2.  $if (inbound < 0)$   
 3.  $if (inbound > 0)$   
 4.  $if (inbound < 0)$   
 5.  $if (inbound > 0)$   
 6.  $if (inbound < 0)$   
 7.  $if (inbound > 0)$   
 8.  $if (inbound < 0)$   
 9.  $if (inbound > 0)$   
 10.  $if (inbound < 0)$   
 11.  $if (inbound > 0)$   
 12.  $if (inbound < 0)$   
 13.  $if (inbound > 0)$   
 14.  $if (inbound < 0)$   
 15.  $if (inbound > 0)$   
 16.  $if (inbound < 0)$   
 17.  $if (inbound > 0)$   
 18.  $if (inbound < 0)$   
 19.  $if (inbound > 0)$   
 20.  $if (inbound < 0)$   
 21.  $if (inbound > 0)$   
 22.  $if (inbound < 0)$   
 23.  $if (inbound > 0)$   
 24.  $if (inbound < 0)$   
 25.  $if (inbound > 0)$   
 26.  $if (inbound < 0)$   
 27.  $if (inbound > 0)$   
 28.  $if (inbound < 0)$   
 29.  $if (inbound > 0)$   
 30.  $if (inbound < 0)$   
 31.  $if (inbound > 0)$   
 32.  $if (inbound < 0)$   
 33.  $if (inbound > 0)$   
 34.  $if (inbound < 0)$   
 35.  $if (inbound > 0)$   
 36.  $if (inbound < 0)$   
 37.  $if (inbound > 0)$   
 38.  $if (inbound < 0)$   
 39.  $if (inbound > 0)$   
 40.  $if (inbound < 0)$   
 41.  $if (inbound > 0)$   
 42.  $if (inbound < 0)$   
 43.  $if (inbound > 0)$   
 44.  $if (inbound < 0)$   
 45.  $if (inbound > 0)$   
 46.  $if (inbound < 0)$   
 47.  $if (inbound > 0)$   
 48.  $if (inbound < 0)$   
 49.  $if (inbound > 0)$   
 50.  $if (inbound < 0)$   
 51.  $if (inbound > 0)$   
 52.  $if (inbound < 0)$   
 53.  $if (inbound > 0)$   
 54.  $if (inbound < 0)$   
 55.  $if (inbound > 0)$   
 56.  $if (inbound < 0)$   
 57.  $if (inbound > 0)$   
 58.  $if (inbound < 0)$   
 59.  $if (inbound > 0)$   
 60.  $if (inbound < 0)$   
 61.  $if (inbound > 0)$   
 62.  $if (inbound < 0)$   
 63.  $if (inbound > 0)$   
 64.  $if (inbound < 0)$   
 65.  $if (inbound > 0)$   
 66.  $if (inbound < 0)$   
 67.  $if (inbound > 0)$   
 68.  $if (inbound < 0)$   
 69.  $if (inbound > 0)$   
 70.  $if (inbound < 0)$   
 71.  $if (inbound > 0)$   
 72.  $if (inbound < 0)$   
 73.  $if (inbound > 0)$   
 74.  $if (inbound < 0)$   
 75.  $if (inbound > 0)$   
 76.  $if (inbound < 0)$   
 77.  $if (inbound > 0)$   
 78.  $if (inbound < 0)$   
 79.  $if (inbound > 0)$   
 80.  $if (inbound < 0)$   
 81.  $if (inbound > 0)$   
 82.  $if (inbound < 0)$   
 83.  $if (inbound > 0)$   
 84.  $if (inbound < 0)$   
 85.  $if (inbound > 0)$   
 86.  $if (inbound < 0)$   
 87.  $if (inbound > 0)$   
 88.  $if (inbound < 0)$   
 89.  $if (inbound > 0)$   
 90.  $if (inbound < 0)$   
 91.  $if (inbound > 0)$   
 92.  $if (inbound < 0)$   
 93.  $if (inbound > 0)$   
 94.  $if (inbound < 0)$   
 95.  $if (inbound > 0)$   
 96.  $if (inbound < 0)$   
 97.  $if (inbound > 0)$   
 98.  $if (inbound < 0)$   
 99.  $if (inbound > 0)$   
 100.  $if (inbound < 0)$

Jonathan - (2ndy book)  
Can you give me the size  
loop size  
Can you give  
size  
Front sheet  
Can you give me  
Front sheet size  
1000  
Front size 1000 size  
Can you give me  
Can you give  
3000  
Front size 3000 size  
Can you give me  
Can you give  
750  
Front size 750 sheet  
Can you give me  
0

## Output :

```
"C:\Users\HP\Downloads\Bur.  X  +  v
Enter the Bucket size = 5000
Enter the outgoing rate = 200

Enter the packet size = 3000
The Packet of size 3000 is added and in the bucket

Enter 1 to Continue or 0 to Stop: 1

Enter the packet size = 2000
The Packet of size 2000 is added and in the bucket

Enter 1 to Continue or 0 to Stop: 1

Enter the packet size = 1500
The Packet of size 6422296 is dropped due to lack of space in the bucket

Enter 1 to Continue or 0 to Stop: 1

Enter the packet size = 100
The Packet of size 100 is added and in the bucket

Enter 1 to Continue or 0 to Stop: 0

Process returned 0 (0x0)   execution time : 33.269 s
Press any key to continue.
```