

Experiment - 14

Aim: - ~~Write a~~ To write a program for congestion control using leaky bucket algorithm.

```
#include <stdio.h>

int main()
{
    int incoming, outgoing, bucket-size, n, store=0;
    printf("Enter bucket size:");
    scanf("%d", &bucket-size);
    printf("Enter outgoing rate:");
    scanf("%d", &outgoing);
    printf("Enter number of inputs:");
    scanf("%d", &n);

    while (n != 0)
    {
        printf("Enter the incoming packet size:");
        scanf("%d", &incoming);
        if (incoming <= (bucket-size - store))
        {
            store += incoming;
            printf("Bucket buffer size %d out of %d\n",
                store, bucket-size);
        }
        else
        {
            printf("Dropped %d no of packets\n",
                incoming - (bucket-size - store));
            printf("Bucket buffer size %d out of %d\n",
                store, bucket-size);
        }
    }
}
```

```
store = bucket-size;  
}  
store = store - outgoing;  
printf("After outgoing %d packets left  
out of %d in buffer\n", store,  
bucket-size);  
n--;  
}  
}
```

Output:

Enter bucket size: 5000

Enter outgoing rate: 2000

Enter number of input: 2

Enter the incoming packet size: 3000

Bucket buffer size 3000 out of 5000

After outgoing 1000 packets left out of
5000 in buffer.

Enter the incoming packet size: 1000

Bucket buffer size 2000 out of 5000

(After outgoing 0 packets left out of
5000 in buffer.