## **EXPERIMENT-9**

Write a program for congestion control using leaky bucket algorithm.

## **Program**

```
#include<stdio.h>
#include<dos.h>
#include<stdlib.h>
#define bucketSize 100
void bktInput(int a,int b)
if(a>bucketSize)
printf("\n\t\tBucket overflow");
else
delay(500);
while(a>b)
printf("\n\t\t%d bytes outputted.",b);
a=a-b;
delay(500);
}
if (a > 0)
printf("\n\t\tLast%d bytes sent\t",a);
printf("\n\t\tBucket output successful");
void main()
int op, pktSize,i;
clrscr();
randomize();
printf("Enter output rate : ");
scanf("%d",&op);
for( i=1;i<=5;i++)
delay(random(100));
```

```
pktSize=random(100);
printf("\nPacket no %d\tPacket size =%d ",i,pktSize);
bktInput(pktSize,op);
}
getch();
}
```

## **Output:**

```
BB DOSBox 0.74, Cpu speed: max 100% cycles, Frameskip 0, Program:
                                                       TC
Enter output rate : 30
Packet no 1
                Packet size =14
                Last14 bytes sent
                Bucket output successful
Packet no 2
                Packet size =5
                Last5 bytes sent
                Bucket output successful
Packet no 3
                Packet size =60
                Last60 bytes sent
                Bucket output successful
Packet no 4
                Packet size =55
                Last55 bytes sent
                Bucket output successful
                Packet size =24
Packet no 5
                Last24 bytes sent
                Bucket output successful
```