EXPERIMENT 14

Aim: Write a program for congestion control using leaky bucket algorithm

```
#include <stdio.h>
#include <conio.h>
void main()
{
  int bucket_size, dr;
  printf("Enter bucket size and data rate\n");
  scanf("%d", &bucket_size);
  scanf("%d", &dr);
  int emp = bucket_size;
  while(1){
    int ch, ps;
    printf("Enter the packet size");
    scanf("%d", &ps);
    if(ps <= bucket_size)
    {
      if(ps <= emp)
      {
        printf("Packet of size %d transmitted", ps);
      }
      else
      { printf("Packet dropped");
```

```
else
{
    printf("Packet Dropped");
}
printf("Continue ? 1 or 0 ? : ");
scanf("%d", &ch);
if(ch == 0)
    break;
}
}
```

OUTPUT :

Enter bucket size and data rate
5000
200
Enter the packet size
6000
packet dropped
Continue ? 1 or 0 ? : 1
Enter the packet size :
3000
packet of size 3000 transmitted
Continue ? 1 or 0 : 1
Enter the packet size :
2000
Packet of size 3000 transmitted.

```
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 1500 is dropped due to lack of space in the bucket

Enter 1 to Continue or 0 to Stop: 0
PS D:\BMSCE\Academics\Semester IV\Computer networks\Lab\Leaky bucket>
```