

LAB-14

AIM:- Write a program for congestion control using baby bucket algorithm.

```
#include <stdio.h>
#include <conio.h>
void main()
{
    int bucket_size, dr;
    printf("Enter bucket size and data rate \n");
    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");
                emp = emp - ps + dr;
            }
        }
        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

Continue? 1 or 0?: 1

Enter the packet size

1000

packet dropped

Continue? 1 or 0?: 0