

OBSERVATION

Q1/8/23 What is program for congestion control using leaky bucket algorithm

Ans

Code -

```

import java.util.*;

class LeakyBucket {
    public static void main (String args[]) {
        int n, s = 0;
        Scanner sc = new Scanner (System.in);
        System.out.println("Enter no of queues, buffer size,
        input & output packet size");
        int q = sc.nextInt();
        int bs = sc.nextInt();
        int ip = sc.nextInt();
        int op = sc.nextInt();
        for (int i = 0; i < q; i++) {
            rem = bs - s;
            if (op <= rem) {
                System.out.println("Packet is accepted");
                s += ip;
            }
            else {
                System.out.println("Packet not accepted");
            }
            System.out.println("Remaining space = " + (bs - s));
            s -= op;
        }
    }
}

```

OUTPUT

```
PS C:\Users\sanja> cd C:\Users\sanja\OneDrive\Documents
PS C:\Users\sanja\OneDrive\Documents> javac Leakybucket.java
PS C:\Users\sanja\OneDrive\Documents> java Leakybucket
enter no of queries,buffer size,input and output packet size
4 10
6
1
packet is accepted
remaining space=4
Packet not accepted
remaining space=5
packet is accepted
remaining space=0
Packet not accepted
remaining space=1
PS C:\Users\sanja\OneDrive\Documents> █
```