Samadata
1BM19CS409

Saathi

Date __/__/____

12) write a Program for congestion control using leaky bucket algorithm.

```
#include <bits/stdc++.h>
#include <unistd.h>
using namespace std;
#define bucketSize 500
void bucketInput(int a, int b)
{
    if (a > bucketSize)
        cout << "\n\t\t Bucket overflow";
    else {
        sleep(5);
        while (a > b) {
            cout << "\n\t\t" << b << " bytes outputted.";
            a -= b;
            sleep(3);
        }
        if (a > 0)
            cout << "\n\t\t Last " << a << " bytes Sent.";
        cout << "\n\t\t Bucket output Successful";
    }
}
int main()
{
```

Date __/__/____

```
int OP, pktSize;
cout<<"enter outPut rate :";
cin>>OP;
for(int i=1; i<=5; i++)
{
    Sleep(rand()%10);
    PktSize = rand()%700;
    cout<<"\nPacket no"<<i<<"\t Packet
      Size = "<<PktSize;
    bucketInPut(PktSize, OP);
}
cout<<endl;
return 0;
}
```