Hemanth kumar vc
1BM18CS037

write a program for congesion control using leaky bucket alogrith.

```
#include <iostream.h>
#include <stdlib.h>
#define bucketSize 1000.

void bktInput(int a, int b)
{
    if ( a > bucketSize)
        cout <<" \n\t Bucket overflow ";
    else {
        delay (500);
        while(a>b)
        {
            cout<<"\n\t"<< b <<" bytes outputted ";
            a-=b;
            delay(500);
        }
        if (a>0)
            cout <<" \n\t Last "<< a <<" bytes sent \t";
            cout <<" \n\t Bucket output successful ";
        }
    }
int main()
{
    int op, pkt size;
    randomsize();
    cout<< " Enter output rate : "; cin>>op;
    for(int i=1; i<=5; i++)
    {
        delay (random (1000));
        pkt size = random (1000);
```

```
        cout<<"\n Packet no "<<i<<" \t packet size = "<<pktsize;
        bucket input(pktsize, op);
    }
}
```