2/1/23

Lab 9. Leaky bucket Algorithm

Aim: Write pgm for congestion control using leaky bucket algorithm

Code:

```
#include <iostream.h>
#include <stdio.h>
using namespace std;
int main(){
int capacity=0, packet=0, bsize=, rate=0.
char ans='y';
cout<<"Enter the bucket size: ";
cin>>capacity.
cout<<"Enter the leaking rate: ";
cin>>rate;
while(ans=='y')
{ cout<<"enter the packet size: ";
cin>>packet;
if((bsize+packet>capacity)
{ cout<<"\n buffer full at the moment";
}
else if((bsize+Packet)<=capacity)
{ bsize+=Packet;}
bsize-=rate;
cout<<"remaining bucket capacity is"<<(bsize);
cout<<"\n do you wish to keep adding packets
y\n:";
```

```
cin>>ans;
}
return 0;
}
```

O/P

enter the bucket size :70
Enter the leaking rate : 2
enter the packet size: 20
remaining bucket size :18
do you ~~thin~~ wish to keep adding packets ? y/n: y
enter the packet size : 20
remaining bucket size=36
do you wish to keep adding packets ? y/n: y
enter packet size =20
remaining bucket size is 54
do you wish to keep adding packets? y/n: y
enter the packet size:20
buffer full at the moment
remaining bucket capacity is 54
do you wish to keep adding packets? y/n: y
enter the packet size:2
remaining capacity of bucket is 52
do you wish to keep adding packets ? y/n: n