CN Lab Cycle 2 Sadin Shrestha
1BM16CS142

Experiment #4:

→ Write a program to implement leaky bucket algorithm?

Language: C++

```
#include <iostream.h>
#include <dos.h>
#include <stdlib.h>
#define bucketSize 512
void bktInput (int a, int b) {
  if (a > bucketSize)
  cout <<"\n\t Bucket Overflow";
 else {
  delay(500);
  while (a>b){
  cout <<"\n\t\t" << b <<" bytes outputted.";
  a -=b;
  delay(500);
 }
 if (a>0) cout <<"\n\t\tLast "<<a<<" bytes sent\t";
cout <<"\n\t\tBucket output successful";
 }
}
void main() {
  int op, pktSize;
 randomize();
```

```
cout<<" Enter Output rate :"; cin >> op;
for (int i=1 ; i<=5; i++) {
delay (random (1000));
pktSize = random (1000);
cout <<"\n Packet no "<<i<<"\t Packet Size ="<<pktsize;
bkt Input (pktSize , op);
 }
}
```