Exp-13 Leaky Bucket

```
#include <iostream>
using namespace std;

#define bucketSize 512

void delay (int n)
{ while (n>0)
    { n--;
    }
}

void bktInput (int a, int b)
{ if (a > bucketsize)
    cout <<"\n\t\tBucket 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\t Bucket output successful";
  }
}
```

```
int main ()
{
    int op , pktSize ;

    cout << " Enter output rate : " ;
    cin >> op ;

    for (int i=1 ; i <=5 ; i++)
    {
        delay (rand () % 1000 );
        pktSize = rand () % 1000 ;
        cout << "\n Packet no " <<i<< " \t Packet size = " << pktSize;
        bktInput (pktSize , op );
    }

    return 0 ;
}
```