Lab-8

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Write a program for congestion control using leakly bucket Algorithm

```
#include <iostream>
using namespace std;
int main()

Count << " Enter bucket size " << end;
int bucket size;
int filled = 0;
int output rate;
int input rate;
int choice
cin >> bucket size;
Count << " Enter output rate " << end;
Cin >> output rate;
do {
    Cout << " Enter packet size " << end;
    Cin >> input packet;
    if ( input packet <= bucket size ) {
    if ( filled + input packet > bucket size)
{
  Cout << " Packet too big for bucket " <<
   endl;
}
else {
filled = filled + inputbucket;
}
else
{
Cout << packet is too big for bucket " << end
}
```

```
else
if (filled <= output rate)
{
    filled = 0;
}
else
    filled = filled - output rate;
cout << "Amount of bucket filled" << filled;
cout << "Do you want to enter another Packet (9 for yes, 8 for no)" << end
cin >> choice
}
while (choice == 9);
}
```

Output:

Enter Bucket size :- 500
Enter output rate :- 50
Enter packet size :- 700
Packet too big for bucket
Do you want to enter packet (9 yes 8 no):
~~Packet filled :-~~
Enter Packet size = 200
Packet filled :- 150
Do you want to Enter packet (9 yes, 8 no): 9
Enter packet size : 250
bucket Size :- 350
DO you want to Enter packet (9 yes 8 no): 9
Enter packet size : 250
Packet too big for bucket
Amount of bucket filled 300.

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