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## LAB-8

Write a program for congesion control using leaky bucket. algorithm.

```cpp
#include <iostream>
using namespace std;
int main()
{
cout << "Enter bucket size" << endl;
int bucketsize;
int filled=0;
int outputrate;
int inputrate;
int choice;
cin >> bucketsize;
cout << "Enter Output rate" << endl;
cin >> outputrate;
do {
  cout << "Enter packet size" << endl;
  cin >> outputrate;
  do {
    cout << "Enter packet size " << endl;
    cin >> input paccet;
    if (inputpacket <= bucketsize) {
    if (filled + input packet > bucketsize)
    {
    cout << "Packet too big for bucket " << endl;
    }
    else {
    filled = filled + inputbucket;
    }
  }
```

```
else
{
cout << packet is too big for bucket." << endl;
}
if (filled <= outputrate)
{
    filled = 0;
}
else {
    filled = filled - outputrate; }
cout << "Amount of bucket filled" << filled;
cout << "Do you want to enter another packet
  (9 for yes, 8 for no)" << endl;
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) : 9
Enter Packet Size : 200
bucket 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.

```
Enter bucket size
500
Enter  output rate
50
Enter packet size
700
Packets too big for bucket
Amount of bucket filled 0
Do you want to enter another packet(9 for yes, 5 for no)
9
Enter packet size
200
Amount of bucket filled 150
Do you want to enter another packet(9 for yes, 5 for no)
9
Enter packet size
250
Amount of bucket filled 350
Do you want to enter another packet(9 for yes, 5 for no)
9
Enter packet size
250
Packets too big for bucket
Amount of bucket filled 300
Do you want to enter another packet(9 for yes, 5 for no)
```