5/11/23

Lab 8

Leaky Bucket Algorithm

Aim: Write a program for congestion control using leaky bucket algorithm.

```
#include <stdio.h>
#include <stdlib.h>
int main(){
   int input=0, i=0, bucket limit = 100, op=1
   int size=50, current=0, inpw, out=10;
   char a='y';
   do{
      if(current<=size){
      if (current<=size && a=='y'){
          cout << "Enter packet input";
          cin >> input;
          current += input;
      }
      if (current>=10){
        current = current-10;
        cout << "Packets sent : 10\n");

      }
      else{
          cout << "Packet sent is "<<current<<endl;
          current=0;
      }
      cout << "Remaining packets in bucket: "<<current<<endl;
      cout << "Do you want to input packet;
      cin>>a
   }
   } while (current>0 || a=='y');
```

```
    cout << " End ";
    return 0;
}
```

Output

```
Enter packet input : 20
Packets sent : 10
  Remaining packets = 10
Do you want to input packet : y
Enter a packet input : 10
Packets sent : 10
Remaining packets : 10
Do you want to input packet : n
Packets sent : 10
Remaining packets : 0
Do you want to input packet : n
End.
```

FINAL OUTPUT