Program-le Lealzy-Bucket Algorithm for Congertion control

import os clear = lambda: os. system('clear')

class client:

def \_init\_(Self, vate = int, data = []): Self. vate = rate Self. data = data

def -str- (self): return str (self. rate), str (self. data)])

class Buffer:

def - int. (Self, buffer-size = int, buffer = [3]: Self. buffer-size = buffer-size Self. buffer = buffer

def checlestate (self): if len(self.buffer) == 0: return True

def - str-(self): return str([str(self.buffer.size), str(self.buffer)]);

```
basestate = Toue
Sec = 1
 buffer = Buffer ( unt ( unput ( "Enter buffer size")))
client = client ( ûnt ( ûnput (" Enter client acceptance
                               rate in bps")))
data-to-send = Str
While basestate:
  data_to_Send = input ("Enter a String Send by the
                            Sequer")
  (ount = 0
   if buffer, checkstate ():
          for i in range (o, len (data-to-send)):
                   i c client. rate:
                    cliend. data. append (data-to-send[i])
              else;
                   if count ¿ buffer. buffer-size:
                       buffer, buffer, append (data to Sendriz)
                      (ount = len(buffer. buffer)
                   else:
                       print ("Data lom" + data-to-send[i])
  elke:
j=0
        for i in range (o, len (data-to-send) + len (
                                             buffer, buffer):
              i c client. rate:
               if len buffer. buffer):
                   client. data. append(buffer. buffer[0])
                   del buffer. buffer[0]
          6/86:
               client. data. append (data-to-send Cj3)
```

elne:

if & Len(buffer, buffer) (= buffer, buffer-size

if j c len(data-to-send):

buffer, buffer, append (data-to-send(j))

it = 1

elne:

uf j c len(data-to-send):

print ("Data lom"+ data-to-send(j))

j+ = 1;

print (buffer)

print (client)