EXPERIMENT-14

Write a program for congestion control using Leaky bucket algorithm.

	DatePage
Experiment-11	4
Aim to waite a pace using leaky bucket al	gram for congestion control
	agridant.
# include / stdio.h?	
++ include / conio h?	
void main()	
int bucketsize, da;	The state of the s
Dintl("File) lesses	1 del 9 de ")
paint (" Enter buchersize wany ("Id Id", & de	subst-size, Ida);
int emp = bucket size;	
while (i) (
int ch, ps;	
paint (" Enter mikel sine	1.").
point ("Forter packet size scary ("Id", & ps);	-\M
if (ps 4= bucked- size)	
if (psc=emp)	
paint ("paike	I size il d sent " ps);
else	3/ 11-1
point ("prihal	size I'd dapped ", ps);
em p = emp - ps + a	
I also 1	LO ₁
paint (" packet deopp	0 1/9

	SURYA Gold
paint (" continue transmission?"	1.
scan (" 1 d", k, h);	,
	and the same
if (ch==0)	
book;	Louis Toll I
3	
3	
	a to help
autqut:	
The state of the s	
Enter buckulsize and data sale	
4000 250	A STATE OF THE PARTY OF THE PAR
Enter proceed size	and a language
5000	let a litelan
packet despred	Course talon
Continue transmission?	
manufacture and the second	
Enler packet vize	Aller Sunfaces
1000	as all the below
pocket size 1000 sent	
Continue foonsmission?	
Enles packet size	The state of the s
3000	
packet size 3000 sent	
Continue transmission?	A CALL PLANE
50 C+	
Enter packet size	To be a
75 0	51 1
quickal size 750 deopped	I be with the
Continue toons mission.	I to January a Tital
0	3 (142)
the same of the	A Leading
Abana Palana Sida	and the state of

Code:

```
bucket=int(input("Enter bucket capacity "))
rate=int(input("Enter rate of data transmission "))
remaining=bucket
while True:
   packet=int(input("Enter packet size(-1 for no packets, -2 for end of
transmission) "))
   if packet==-2:
   if packet>bucket:
       print("Packet can't be sent")
       if remaining+rate>=packet:
           remaining-=packet
           print("Packet sent")
           print("Packet can't be sent")
```

```
if remaining==bucket:
    continue

if bucket-remaining<rate:
    remaining=bucket
    continue

remaining+=rate</pre>
```

Result:

```
PS C:\Users\aravi\OneDrive\Desktop\notes\CN> & C:/Python311/python.exe c:/Users/a
.py
Enter bucket capacity 4000
Enter rate of data transmission 250
Enter packet size(-1 for no packets, -2 for end of transmission)5000
Packet can't be sent
Enter packet size(-1 for no packets, -2 for end of transmission)1000
Enter packet size(-1 for no packets, -2 for end of transmission)3000
Packet sent
Enter packet size(-1 for no packets, -2 for end of transmission)750
Packet sent
Enter packet size(-1 for no packets, -2 for end of transmission)500
Packet can't be sent
Enter packet size(-1 for no packets, -2 for end of transmission)-1
Packet sent
Enter packet size(-1 for no packets, -2 for end of transmission)500
Packet sent
Enter packet size(-1 for no packets, -2 for end of transmission)-2
```