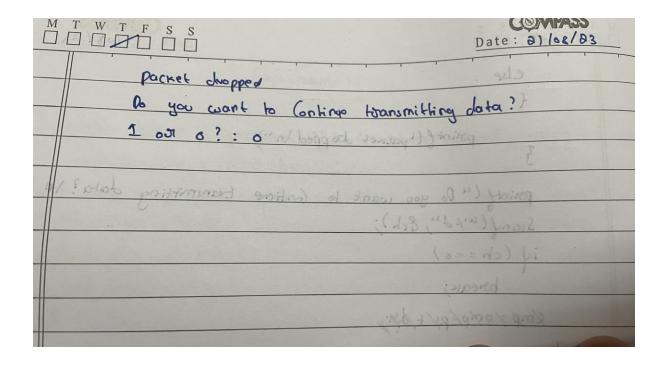
LAB PROGRAM - 14

Q) Write a program for congestion control using Leaky bucket algorithm.

Procedure:

```
COMPASS
17/01/23
M T W T F S S
                   Experiment-1+
   ATM: Write a program for congestion control ving
    Leavy bucket algorithm.
   # include < stdio. h>
   # include (conio.h>
   void main )
     int bucket - size;
     porint ("Enter bucket size and data state \n");
     Scary ( " , & bucket-size);
    Scanf ("1.1", & Ha);
    int emp = bucket - size;
     while (1)
         intochymocososos of ooksoos
        porint ("Enter the packet size : \n >>);
        Scanf (". 1.d s', Eps);
        phints ( standning / &
        if (ps < = bucket size)
            if (PSK = emp)
              parint (" packet of size % of transmitted: \n", ps)
          3
          else
              print of ("packet dropped In");
        emp-emp-ps+da;
```

M T W T F S S Date: (7/08/32
else baggado tensos
 (state position most applied of Japan applied)
 point ('packet dopped \n'');
pointy ("Do you want to Continue transmitting data? In 1 000?:)
Scand (". Kd", &ch);
iy (ch = = 6)
break;
5, w/6 1 6 00 6 6 6 1 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
 3
]
ουτ ροτ:
Color hand Co. and III and
Enter bucket Size and data state
200
Enter the packet size:
pacinet diapped
Do you want to Continue transmitting data?
1 03 0 7 : 1
Enter the packet size:
3000
packet of size 3000 transmitted:
a you want to Continue transmitting data?
1 01 0 ? : 1
Enter the packet size:
2000
packet of size 2000 transmitted:
Do you want to Continue townsmitting data?
1 07 0 ?: 1
Enter the pocket size:
1000



Code:

```
#include<stdio.h>
#include<conio.h>

void main()
{
    int bucket_size;
    int dr;
    printf("Enter bucket size and data rate\n");
    scanf("%d",&bucket_size);
    scanf("%d",&dr);
    int emp = bucket_size;
    while(1)
    {
        int ch;
    }
}
```

```
int ps;
printf("Enter the packet size :\n ");
scanf("%d",&ps);
if(ps<=bucket_size)</pre>
{
  if(ps<=emp)</pre>
  {
     printf("packet of size %d transmitted :\n",ps);
  }
  else
  {
     printf("packet dropped\n");
  }
}
else
{
  printf("packet dropped\n");
}
printf("Do you want to continue transmitting data?\n 1 or 0?:");
scanf("%d",&ch);
if(ch==0)
{
```

```
break;
}
emp =emp-ps+dr;
}
```

Output:

```
Enter bucket size and data rate
5000
200
Enter the packet size :
6000
packet dropped
Do you want to continue transmitting data?
1 or 0? :1
Enter the packet size :
3000
packet dropped
Do you want to continue transmitting data?
1 or 0? :1
Enter the packet size :
2000
packet dropped
Do you want to continue transmitting data?
1 or 0? :1
Enter the packet size :
1000
packet dropped
Do you want to continue transmitting data?
 1 or 0? :0
```