LAB 14

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Step 9 [ii]

Write a program for congestion control using Leaky Bucket algorithm

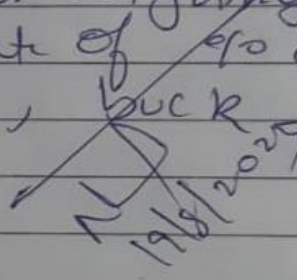
C-code

```
#include <stdio.h>
int main()
{
int incoming, outgoing, buck_size,
n, store =0;
printf ("Enter bucket size");
scanf ("%d", &bucket_size);
printf ("Enter outgoing size:");
scanf ("%d", &outgoing);
printf ("Enter number of inputs:");
scanf ("%d", &n);

while (n!=0)
{
printf ("Enter the incoming bucket
        size:");
scanf ("%d" &incoming);
if (incoming <=(bucket_size-store))
{
  store += incoming;
  printf ("Bucket buffer size %d
          out of %n", store, buck_size
;}
```

```
else
{
printf("Dropped %d no of packets\n"
        incoming - (buck_size - store));

printf("Bucket buffer size %d out of
        %d \n", store, buck_size);
store = buck_size;
}
store = store - outgoing;
printf(" After outgoing %d packets
        left out of %d in buffer\n",
        store, buck_size);
n--;
}
}
```



Output :-

Enter bucket size: 5000
Enter outgoing rate: 2000
Enter number of inputs: 2
Enter the incoming packet size: 3000
Bucket buffer size 3000 out of 5000
After outgoing 1000 packets left out of 5000 in buffer.
Enter the incoming packet size: 1000
Bucket buffer size 2000 out of 5000
After outgoing 0 packets left out of 5000 in buffer.