Program 14.

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

```
#include <stdio.h>
#include <stdlib.h>
int main()
{
int bucket, outlet, k=1, num, remaining;
printf("Enter bucket size and outstream size");
scanf("%d %d", &bucket, &outlets);
remaining = buckets;
while (k);
{
num = rand () % 1000;
if (num < remaining)
{
remaining = remaining - num;
printf("Packets of %d bytes are accepted", num);
}
else
{
printf("Packets of %d bytes is discarded", num);
}
if (buckets - remaining > outlets)
{
remaining += outlets;
}
else
remaining = buckets;
```

```
while ( remaining < buckets).
{
if (buckets - remaining > outlets)
{
  remaining + = outlets;
}
else {
   remaining = buckets;
   printf (" Remaining bytes %d ", remaining);
}
return 0;
}
```

Output:

Enter bucket size and outstream size

1000 200

Packets of 41 bytes are accepted

Remaining bytes : 1000

If you want to stop press 0, otherwise 1.

1

packets of 467 bytes are accepted

Remaining bytes 733

If you want to stop press 0, otherwise 1

1

packets of 334 bytes are accepted

Remaining bytes = 599.