ARUN M
R6B 76

Networking lab assignment 4

Congestion control algorithm

```
#include <stdio.h>

int main() {
   int n, bsize, in, out, store = 0;

   printf("Enter the bucket size, outgoing rate and number of inputs: ");
   scanf("%d %d %d", &bsize, &out, &n);

   while(n != 0) {
      printf("Enter the incoming packet size: ");
      scanf("%d", &in);

      if (in <= (bsize - store)) {
         store += in;
         printf("Before outgoing, bucket size %d occupied out of %d\n", store, bsize);
      } else {
         printf("Incoming packets %d discarded out of %d\n", in - (bsize - store), in);
         store = bsize;
         printf("Before outgoing, bucket size %d occupied out of %d\n", store, bsize);
      }

      if (store > out) {
         store -= out;
      } else {
         store = 0;
      }

      printf("After outgoing, bucket size %d occupied out of %d\n", store, bsize);
      n--;
   }

   return 0;
}
```

```
ubuntu@ubuntu:~$ gcc Buket.c
ubuntu@ubuntu:~$ ./a.out
Enter the bucket size, outgoing rate and number of inputs: 5
1
2
Enter the incoming packet size: 3
Before outgoing, bucket size 3 occupied out of 5
After outgoing, bucket size 2 occupied out of 5
Enter the incoming packet size: 1
Before outgoing, bucket size 3 occupied out of 5
After outgoing, bucket size 2 occupied out of 5
ubuntu@ubuntu:~$ ^C
ubuntu@ubuntu:~$
```