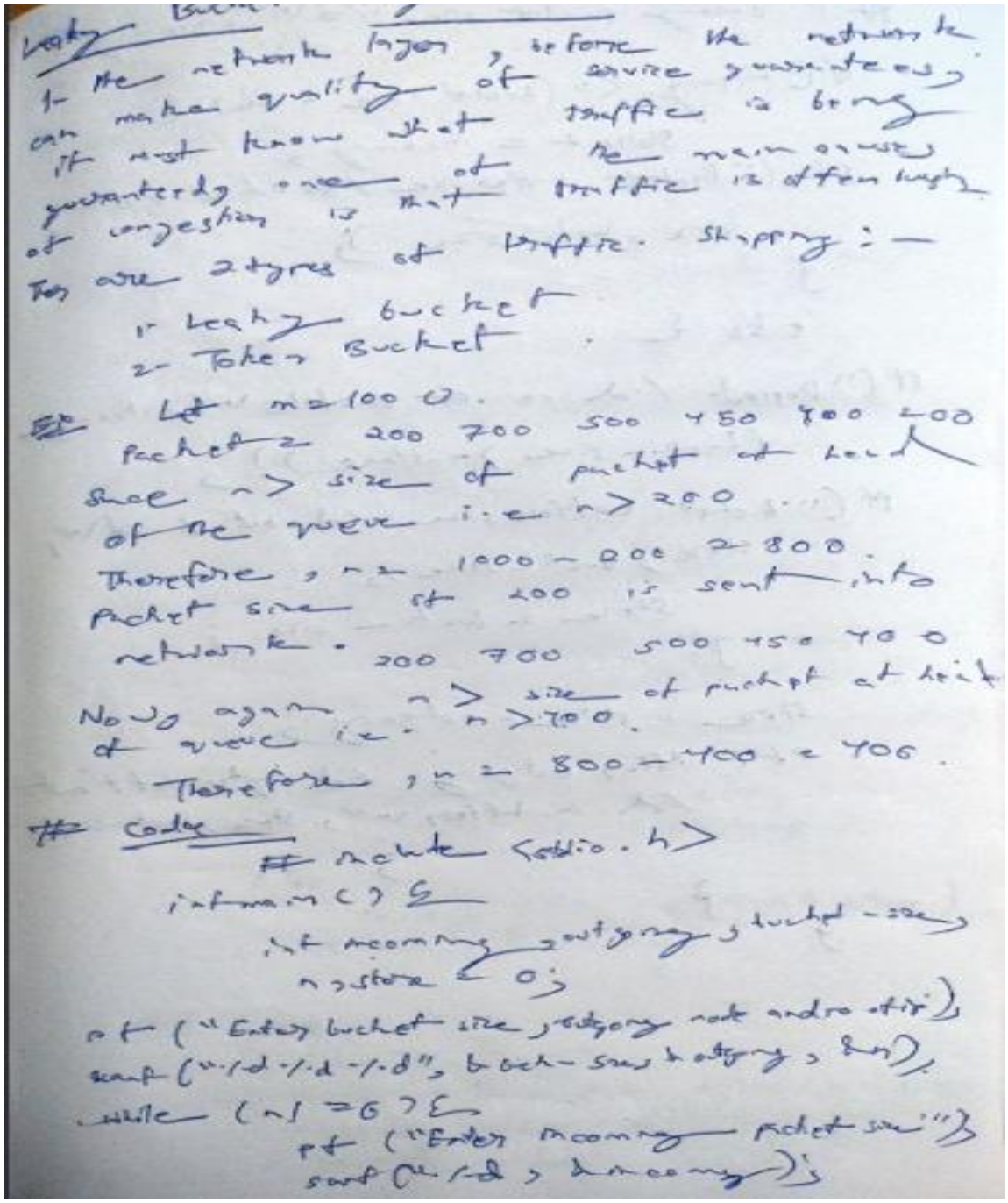
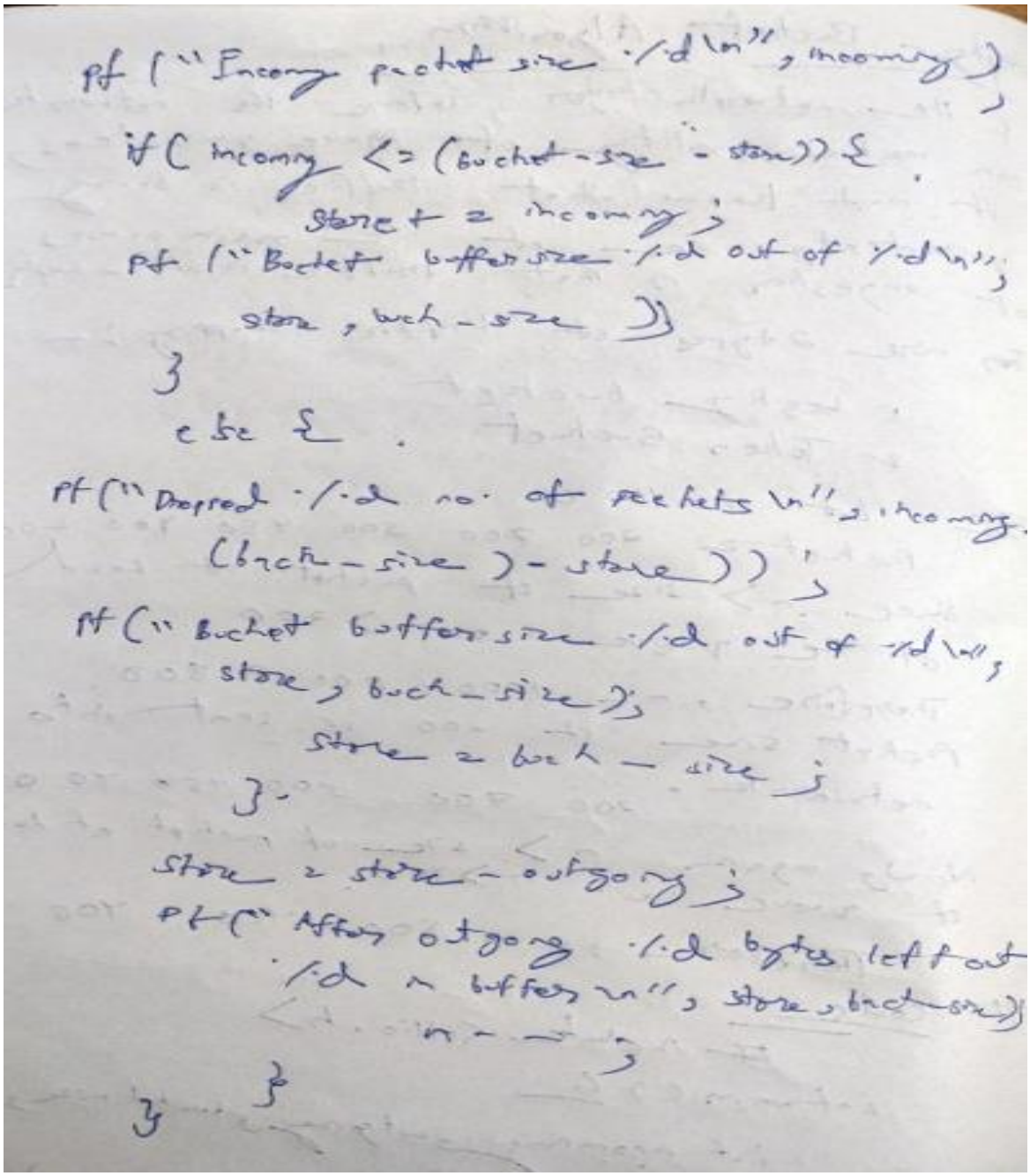
Program 15

Write a program for congestion control using Leaky bucket algorithm.

Code :





```
pf ("Incomy packet size %d\n", incomy)
;
if ( incomy <= (bucket-size - store)) {
        store += incomy;
pf ("Bucket buffer size %d out of %d\n",
    store, buck-size ))
}
else {
pf ("Dropped %d no. of packets\n", incomy.
    (buck-size ) - store )) ;
pf ("Bucket buffer size %d out of %d\n",
    store, buck-size);
        store = buck - size ;
    }.
store = store - outgoy ;
pf (" After outgoy %d bytes left out
    %d in buffer\n", store, buck-size)
        n--;
    }
}
```

Output

Clear

```
Generated packets: [80, 63, 57, 12, 69]
Enter bucket size: 60
Enter output rate: 30
Packet of size 80 bytes exceeds bucket capacity (60 bytes) - REJECTED
Packet of size 63 bytes exceeds bucket capacity (60 bytes) - REJECTED

Packet of size 57 bytes added to bucket
Bytes in bucket: 57
Transmitting 30 bytes
Bytes remaining in bucket: 27
Transmitting 27 bytes
Bytes remaining in bucket: 0

Packet of size 12 bytes added to bucket
Bytes in bucket: 12
Transmitting 12 bytes
Bytes remaining in bucket: 0
Packet of size 69 bytes exceeds bucket capacity (60 bytes) - REJECTED

=== Code Execution Successful ===
```