CN LAB

Abhishek R
1BM19CS400
14/12/2020

Implement Leaky bucket Algorithm:-

```
def leaky_bucket(output, bucket_size):
    Print('======')
    Print(f'The output rate is : {output}')
    Print(f'The bucket size is : {bucket_size} Capacity')
    Packet_no = int(input('Enter no. of Packets you want
                          to send : '))

    for i in range(Packet_no):
        Packet_Size = int(input('Enter Packet Size:    '))

        if Packet_Size < bucket_Size:
            if Packet_Size <= output:
                Print(f'Packet number: {i} | Packet Size
                    {Packet_Size} ⇒    ')
                Print('Bucket output Successful')
                Print(f'Last {Packet_Size} bytes Sent')
                Print('======')

            else:
                Print(f'Packet number: {i} | Packet Size
                    {Packet_Size} ⇒ ')
                Print('Bucket output Successful')
                Print(f'{output} bytes outputted')
                Sent = Packet_Size - output
```

Abhishek R

Abhishek.R
1BM19CS400
14/12/2020

```
        Print(f'last{sent} bytes sent')
        Print('======')
    else:
        Print(f'(Packet no {i} | Packet Size{Packet_size}⇒')
        Print('Bucket Overflow')
        Print('======')

output = int(input('Enter output rate:'))
bucket_size = int(input('Enter bucket Size:'))
leaky_bucket(output, bucket_size)
```