11-12-2020

CN Lab-12

Yashaswi.R
1BM18CS154
5th Sem, B sec

12) Leaky Bucket:

```
Class LeakyBucket:
    def _init_(self, bucket_size, output_rate, packets):
        self.bucket_size = bucket_size
        self.output_rate = output_rate
        self.packets = packets

    def traffic-shaping(self):
        for i in range(len(self.packets)):
            packet - size = self.packets[i]
            print(f"Packet No: {i} Packet Size : {packet_size}")
            if packet_size > self.bucket_size;
                print("Bucket overflow")
            else
                while packet_size > output_rate :
                    print(f"{output_rate} bytes sent")
                    packet_size -- = output- rate

            if packet_size :
                print(f"Last {packet_size} bytes sent")
            print('Bucket output successful").
bucket_size = int(input("Enter the bucket size : "))
output_rate = int(input("Enter the output rate : "))
packets = [int(x) for x in input("Enter the input packets : ").split()]
lb = LeakyBucket(bucket_size, output_rate, packets)
lb.traffic - shaping()
```