

LAB-9

```
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 sent: '))  
    for i in range(packet_no):  
        packet_size = int(input('Enter packet 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!')  
            sent = packet_size - output  
            print(f'Last {sent} bytes sent')  
            print(' --- *** --- ')  
        else:  
            print(f'Packet number {i} | Packet Size {packet_size}  
                  => ')  
            print('Bucket Overflow')  
            print('*** - *** - - - *')
```

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```
output = int(input('Enter Output Rate: '))  
bucket_size = int(input('Enter bucket size: '))  
leaky_bucket(output, bucket_size)
```