

```
def leaky_bucket ( output , bucket_size):  
    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 <= output :  
            print (f ' Packet number {i} | Packet Size {packet_size} >= ' )  
            print ( ' Bucket Output successful ' )  
            print (f ' Last {packet_size} bytes sent ' )  
        else :  
            print (f ' Packet number {i} | Packet Size {packet_size} >= ' )  
            print ( ' Bucket Output Successful ! ' )  
            sent = packet_size - output  
            print (f ' Last {sent} bytes sent ' )  
        else :  
            print (f ' Packet number {i} | Packet Size {packet_size} >= ' )  
            print ( ' Bucket Overflow ' )  
  
    output = int (input ( ' Enter Output Rate : ' ))  
    bucket_size = int (input ( ' Enter bucket size : ' ))  
    leaky_bucket (output , bucket_size)
```