

LAB-9

Write a program for congestion control using leaky bucket algorithm.

```
def main():
```

```
    bucketSize = int(input('Enter the bucket size:'))
```

```
    outputRate = int(input('Enter the output rate:'))
```

```
    numberOfPackets = int(input('Enter no. of packets:'))
```

```
    for i in range(0, numberOfPackets):
```

```
        print(i+1)
```

```
        packetSize = int(input('Enter packet size:'))
```

```
        if packetSize < outputRate bucketSize:
```

```
            if (packetSize <= outputRate):
```

```
                print('Bucket output successful!')
```

```
                print('Last bytes sent:')
```

```
                print(packetSize)
```

```
            else:
```

```
                print('Bucket output successful!')
```

```
                print('Bytes occurred:')
```

```
                print(outputRate)
```

```
                sent = packetSize - outputRate
```

```
                print('Last bytes sent:')
```

```
                print(sent)
```

```
        else:
```

```
            print('Bucket Overflow!')
```

```
main()
```