

Program 4 :-

```
def start():
```

```
    output_rate = int(input("Enter the output rate"))
```

```
    size = int(input("Enter the bucket size"))
```

```
    n = int(input("Enter no. of packets: "))
```

```
    for i in range(n):
```

```
        pacsize = int(input("Enter size of pac"+i))
```

```
        if pacsize > size:
```

```
            print("Bucket overflow")
```

```
            break
```

```
        if pacsize <= output_rate:
```

```
            print("Bucket output successful
```

```
                "+str(pac_size)+" bytes sent")
```

```
        elif pacsize <= size
```

```
            print("Bucket output successful"
```

```
                "+output_rate" bytes outputted"
```

```
                "Last "+ pacsize-output_rate " bytes  
                    sent last")
```

```
start()
```