

Qn: Demonstrate leaky bucket algorithm

Ans:

```
import time
import random
```

```
def bktInput(a, b, bucket_size = 512)
```

```
    if (a > bucket_size):
```

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

```
    else
```

```
        time.sleep(2)
```

```
        while (a > b)
```

```
            print(f'{b} bytes out puted')
```

```
            a = b
```

```
        time.sleep(2)
```

```
    if (a > 0):
```

```
        print(f'last {a} byte sent')
```

```
        print('Bucket output rate')
```

```
output_rate = int(input('enter output rate:'))
```

```
for i in range(5):
```

```
    time.sleep(2)
```

```
    pkt_size = random.randint(1, 1000)
```

```
    print(f'packet no: {i} packet size: {pkt_size}')
    bktInput(pkt_size, output_rate)
```

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