

Assignment 3: Develop Message Queue Driver and Verify no messages in the message queue are not lost!

Solution implementation:

The number of message Queues was increased to 10000. With the help of Rabbit MQ (open-source message broker), we sent 10000 messages, and the receiving end of the localhost successfully received all the messages

- Sent 10000 messages

```
Command Prompt
[x] Sent Message number9952
[x] Sent Message number9953
[x] Sent Message number9954
[x] Sent Message number9955
[x] Sent Message number9956
[x] Sent Message number9957
[x] Sent Message number9958
[x] Sent Message number9959
[x] Sent Message number9960
[x] Sent Message number9961
[x] Sent Message number9962
[x] Sent Message number9963
[x] Sent Message number9964
[x] Sent Message number9965
[x] Sent Message number9966
[x] Sent Message number9967
[x] Sent Message number9968
[x] Sent Message number9969
[x] Sent Message number9970
[x] Sent Message number9971
[x] Sent Message number9972
[x] Sent Message number9973
[x] Sent Message number9974
[x] Sent Message number9975
[x] Sent Message number9976
[x] Sent Message number9977
[x] Sent Message number9978
[x] Sent Message number9979
[x] Sent Message number9980
[x] Sent Message number9981
[x] Sent Message number9982
[x] Sent Message number9983
[x] Sent Message number9984
[x] Sent Message number9985
[x] Sent Message number9986
[x] Sent Message number9987
[x] Sent Message number9988
[x] Sent Message number9989
[x] Sent Message number9990
[x] Sent Message number9991
[x] Sent Message number9992
[x] Sent Message number9993
[x] Sent Message number9994
[x] Sent Message number9995
[x] Sent Message number9996
[x] Sent Message number9997
[x] Sent Message number9998
[x] Sent Message number9999
Sent 10000 messages

C:\Users\patil\CMPE273\Assignment 3>
```

- Received messages:

```
Command Prompt - python < X + v
Received 9977 messages
[X] Received b'Message number 9977'
Received 9978 messages
[X] Received b'Message number 9978'
Received 9979 messages
[X] Received b'Message number 9979'
Received 9980 messages
[X] Received b'Message number 9980'
Received 9981 messages
[X] Received b'Message number 9981'
Received 9982 messages
[X] Received b'Message number 9982'
Received 9983 messages
[X] Received b'Message number 9983'
Received 9984 messages
[X] Received b'Message number 9984'
Received 9985 messages
[X] Received b'Message number 9985'
Received 9986 messages
[X] Received b'Message number 9986'
Received 9987 messages
[X] Received b'Message number 9987'
Received 9988 messages
[X] Received b'Message number 9988'
Received 9989 messages
[X] Received b'Message number 9989'
Received 9990 messages
[X] Received b'Message number 9990'
Received 9991 messages
[X] Received b'Message number 9991'
Received 9992 messages
[X] Received b'Message number 9992'
Received 9993 messages
[X] Received b'Message number 9993'
Received 9994 messages
[X] Received b'Message number 9994'
Received 9995 messages
[X] Received b'Message number 9995'
Received 9996 messages
[X] Received b'Message number 9996'
Received 9997 messages
[X] Received b'Message number 9997'
Received 9998 messages
[X] Received b'Message number 9998'
Received 9999 messages
[X] Received b'Message number 9999'
Received 10000 messages
```

- Statistics of Queues by RabbitMQ Dashboard:

Global counts ?

Connections: 1 Channels: 1 Exchanges: 7 Queues: 1 Consumers: 1

Nodes

Name	File descriptors ?	Socket descriptors ?	Erlang processes	Memory ?	Disk space	Uptime	Info	Reset stats	+/-
rabbit@Addy	0 65536 available	1 58893 available	424 1048576 available	85 MiB 6.3 GiB high watermark	319 GiB 48 MiB low watermark	3d 4h	basic disc 1 rss	This node All nodes	

Overview

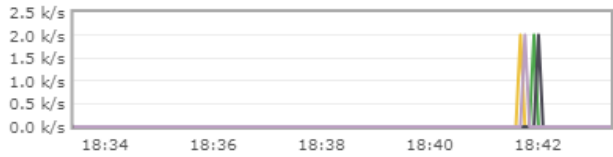
▼ Totals

Queued messages **last ten minutes** ?



Ready	0
Unacked	0
Total	0

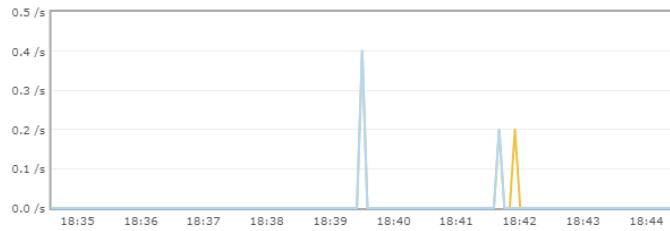
Message rates **last ten minutes** ?



Publish	0.00/s
Publisher confirm	0.00/s
Deliver (manual ack)	0.00/s

▼ Churn statistics

Connection operations **last ten minutes** ?



Created	0.00/s
Closed	0.00/s

Channel operations **last ten minutes** ?



Created	0.00/s
Closed	0.00/s

Queue operations **last ten minutes** ?



Declared	0.00/s
Created	0.00/s
Deleted	0.00/s