No 1

Publisher

```
Creating new instance
Connecting to broker
Publish something
```

Subsriber

```
Creating new instance
Connecting to broker
Subscribing to topic waktu
Message received: 2020-02-24 13:02:49.547075
Message received: 2020-02-24 13:02:50.558591
Message received: 2020-02-24 13:02:51.573266
Message received: 2020-02-24 13:02:52.575383
Message received: 2020-02-24 13:02:53.590120
Message received: 2020-02-24 13:02:54.590196
Message received: 2020-02-24 13:02:55.592708
Message received: 2020-02-24 13:02:56.594542
Message received: 2020-02-24 13:02:57.599279
Message received: 2020-02-24 13:02:58.601506
Message received: 2020-02-24 13:02:59.613694
Message received: 2020-02-24 13:03:00.629168
Message received: 2020-02-24 13:03:01.631873
Message received: 2020-02-24 13:03:02.664413
Message received: 2020-02-24 13:03:03.676999
Message received: 2020-02-24 13:03:04.679784
Message received: 2020-02-24 13:03:05.694321
Message received: 2020-02-24 13:03:06.708348
Message received: 2020-02-24 13:03:07.711961
Message received: 2020-02-24 13:03:08.714869
```

No 2

Publisher

```
creating new instance
connecting to broker
publish something

creating new instance
connecting to broker
publish something
```

Subsriber

```
Creating new instance
Connecting to broker
Subscribing to topic
Message received: AAA 2020-02-24 13:05:46.526373
Message received: AAA 2020-02-24 13:05:47.531959
Message received: AAA 2020-02-24 13:05:48.534725
Message received: AAA 2020-02-24 13:05:49.539210
Message received: AAA 2020-02-24 13:05:50.543341
Message received: AAA 2020-02-24 13:05:51.544347
Message received: AAA 2020-02-24 13:05:52.546272
Message received: AAA 2020-02-24 13:05:53.547766
Message received: AAA 2020-02-24 13:05:54.548710
Message received: AAA 2020-02-24 13:05:55.549946
Message received: AAA 2020-02-24 13:05:56.551350
Message received: AAA 2020-02-24 13:05:57.551868
Message received: AAA 2020-02-24 13:05:58.553596
Message received: AAA 2020-02-24 13:05:59.556824
Message received: AAA 2020-02-24 13:06:00.557107
Message received: AAA 2020-02-24 13:06:01.559844
Message received: AAA 2020-02-24 13:06:02.560556
Message received: AAA 2020-02-24 13:06:03.561351
Message received: AAA 2020-02-24 13:06:04.561970
Message received: AAA 2020-02-24 13:06:05.563390
Message received: BBB 2020-02-24 13:06:13.366352
Message received: BBB 2020-02-24 13:06:14.368369
Message received: BBB 2020-02-24 13:06:15.378193
Message received: BBB 2020-02-24 13:06:16.382034
Message received: BBB 2020-02-24 13:06:17.383552
Message received: BBB 2020-02-24 13:06:18.386759
Message received: BBB 2020-02-24 13:06:19.387444
Message received: BBB 2020-02-24 13:06:20.390217
```

```
Message received: AAA 2020-02-24 13:06:05.563390
Message received: BBB 2020-02-24 13:06:13.366352
Message received: BBB 2020-02-24 13:06:14.368369
Message received: BBB 2020-02-24 13:06:15.378193
Message received: BBB 2020-02-24 13:06:16.382034
Message received: BBB 2020-02-24 13:06:17.383552
Message received: BBB 2020-02-24 13:06:18.386759
Message received: BBB 2020-02-24 13:06:19.387444
Message received: BBB 2020-02-24 13:06:20.390217
Message received: BBB 2020-02-24 13:06:21.393932
Message received: BBB 2020-02-24 13:06:22.398432
Message received: BBB 2020-02-24 13:06:23.399894
Message received: BBB 2020-02-24 13:06:24.415218
Message received: BBB 2020-02-24 13:06:25.418040
Message received: BBB 2020-02-24 13:06:26.420512
Message received: BBB 2020-02-24 13:06:27.421527
Message received: BBB 2020-02-24 13:06:28.435957
Message received: BBB 2020-02-24 13:06:29.437027
Message received: BBB 2020-02-24 13:06:30.444885
Message received: BBB 2020-02-24 13:06:31.447726
Message received: BBB 2020-02-24 13:06:32.451314
```

No 3

Publisher

```
creating new instance
connecting to broker
publish something

creating new instance
connecting to broker
publish something
```

Subsriber

```
Creating new instance
Connecting to broker
Subscribing to topic
Write success for AAA
Write success for AAA
Write success for AAA
Write success for AAA
Write success for AAA
Write success for AAA
Write success for AAA
Write success for AAA
Write success for AAA
Write success for AAA
Write success for AAA
Write success for AAA
Write success for AAA
Write success for AAA
Write success for AAA
Write success for AAA
Write success for AAA
Write success for AAA
Write success for AAA
Write success for AAA
Write success for BBB
Write success for BBB
Write success for BBB
Write success for BBB
Write success for BBB
Write success for BBB
```

```
Write success for AAA
Write success for AAA
Write success for AAA
Write success for BBB
Write success for BBB
Write success for BBB
Write success for BBB
Write success for BBB
Write success for BBB
Write success for BBB
Write success for BBB
Write success for BBB
Write success for BBB
Write success for BBB
Write success for BBB
Write success for BBB
Write success for BBB
Write success for BBB
Write success for BBB
Write success for BBB
Write success for BBB
Write success for BBB
Write success for BBB
```

result_a.txt - Notepad

File Edit Format View Help

```
AAA 2020-02-24 13:09:14.128801
AAA 2020-02-24 13:09:15.137603
AAA 2020-02-24 13:09:16.140481
AAA 2020-02-24 13:09:17.143398
AAA 2020-02-24 13:09:18.145150
AAA 2020-02-24 13:09:19.149243
AAA 2020-02-24 13:09:20.153707
AAA 2020-02-24 13:09:21.157902
AAA 2020-02-24 13:09:22.161731
AAA 2020-02-24 13:09:23.177014
AAA 2020-02-24 13:09:24.178698
AAA 2020-02-24 13:09:25.181558
AAA 2020-02-24 13:09:26.183011
AAA 2020-02-24 13:09:27.187044
AAA 2020-02-24 13:09:28.192203
AAA 2020-02-24 13:09:29.195249
AAA 2020-02-24 13:09:30.199856
AAA 2020-02-24 13:09:31.202353
AAA 2020-02-24 13:09:32.205928
AAA 2020-02-24 13:09:33.210477
```

File   Edit   Format   View   Help

```
BBB 2020-02-24 13:09:41.076451
BBB 2020-02-24 13:09:42.078066
BBB 2020-02-24 13:09:43.081943
BBB 2020-02-24 13:09:44.098278
BBB 2020-02-24 13:09:45.102333
BBB 2020-02-24 13:09:46.113234
BBB 2020-02-24 13:09:47.128741
BBB 2020-02-24 13:09:48.128847
BBB 2020-02-24 13:09:49.174232
BBB 2020-02-24 13:09:50.183263
BBB 2020-02-24 13:09:51.183828
BBB 2020-02-24 13:09:52.185640
BBB 2020-02-24 13:09:53.195965
BBB 2020-02-24 13:09:54.242549
BBB 2020-02-24 13:09:55.244724
BBB 2020-02-24 13:09:56.257429
BBB 2020-02-24 13:09:57.259377
BBB 2020-02-24 13:09:58.263426
BBB 2020-02-24 13:09:59.268372
BBB 2020-02-24 13:10:00.278433
```

No 4

Publisher

```
Creating new instance
Connecting to broker
Read file
Publish photo
```

Subsriber

```
Creating new instance
Connecting to broker
Subscribing to topic photo
Photo received
```

	.ipynb_checkpoints	24/02/2020 11:58	File folder	
	Client Publisher.ipynb	24/02/2020 13:12	IPYNB File	6 KB
	Client Subscriber.ipynb	24/02/2020 13:12	IPYNB File	8 KB
	iris.jpg	24/02/2020 13:12	JPG File	5.273 KB
	Latihan-Indirect Communication.docx	24/02/2020 11:50	Microsoft Word D...	24 KB
	pub_sub.ipynb	24/02/2020 11:50	IPYNB File	3 KB