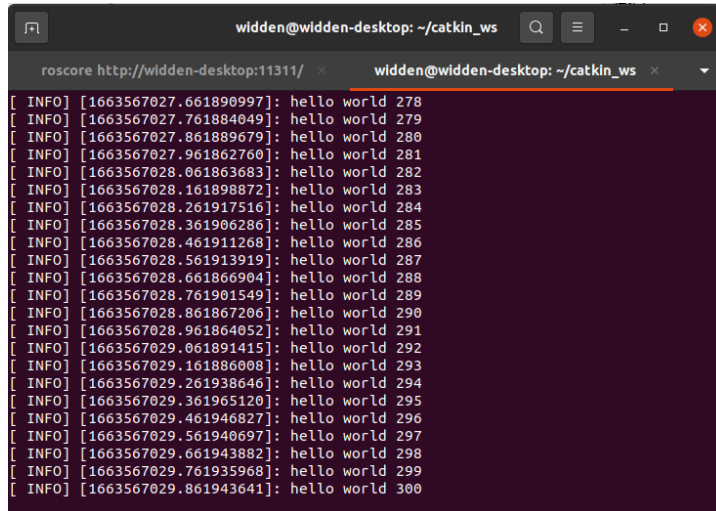


HW1

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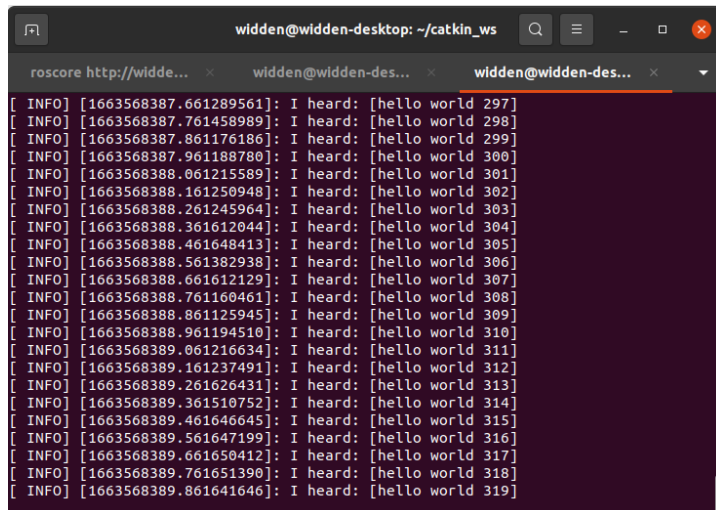
Part 1.ROS (I only use ROS)

Publisher:

A terminal window titled 'widden@widden-desktop: ~/catkin_ws' showing a list of ROS log messages. Each line starts with '[INFO]', followed by a timestamp in brackets, then the message 'hello world' and a sequence number. The sequence numbers range from 278 to 300.

```
widden@widden-desktop: ~/catkin_ws
roscore http://widden-desktop:11311/
[ INFO] [1663567027.661890997]: hello world 278
[ INFO] [1663567027.761884049]: hello world 279
[ INFO] [1663567027.861889679]: hello world 280
[ INFO] [1663567027.961862760]: hello world 281
[ INFO] [1663567028.061863683]: hello world 282
[ INFO] [1663567028.161898872]: hello world 283
[ INFO] [1663567028.261917516]: hello world 284
[ INFO] [1663567028.361906286]: hello world 285
[ INFO] [1663567028.461911268]: hello world 286
[ INFO] [1663567028.561913919]: hello world 287
[ INFO] [1663567028.661866904]: hello world 288
[ INFO] [1663567028.761901549]: hello world 289
[ INFO] [1663567028.861867206]: hello world 290
[ INFO] [1663567028.961864052]: hello world 291
[ INFO] [1663567029.061891415]: hello world 292
[ INFO] [1663567029.161886008]: hello world 293
[ INFO] [1663567029.261938646]: hello world 294
[ INFO] [1663567029.361965120]: hello world 295
[ INFO] [1663567029.461946827]: hello world 296
[ INFO] [1663567029.561940697]: hello world 297
[ INFO] [1663567029.661943882]: hello world 298
[ INFO] [1663567029.761935968]: hello world 299
[ INFO] [1663567029.861943641]: hello world 300
```

Subscriber:

A terminal window titled 'widden@widden-desktop: ~/catkin_ws' showing a list of ROS log messages. Each line starts with '[INFO]', followed by a timestamp in brackets, then the message 'I heard: [hello world' and a sequence number. The sequence numbers range from 297 to 319.

```
widden@widden-desktop: ~/catkin_ws
roscore http://widden-desktop:11311/
[ INFO] [1663568387.661289561]: I heard: [hello world 297]
[ INFO] [1663568387.761458989]: I heard: [hello world 298]
[ INFO] [1663568387.861176186]: I heard: [hello world 299]
[ INFO] [1663568387.961188780]: I heard: [hello world 300]
[ INFO] [1663568388.061215589]: I heard: [hello world 301]
[ INFO] [1663568388.161250948]: I heard: [hello world 302]
[ INFO] [1663568388.261245964]: I heard: [hello world 303]
[ INFO] [1663568388.361612044]: I heard: [hello world 304]
[ INFO] [1663568388.461648413]: I heard: [hello world 305]
[ INFO] [1663568388.561382938]: I heard: [hello world 306]
[ INFO] [1663568388.661612129]: I heard: [hello world 307]
[ INFO] [1663568388.761160461]: I heard: [hello world 308]
[ INFO] [1663568388.861125945]: I heard: [hello world 309]
[ INFO] [1663568388.961194510]: I heard: [hello world 310]
[ INFO] [1663568389.061216634]: I heard: [hello world 311]
[ INFO] [1663568389.161237491]: I heard: [hello world 312]
[ INFO] [1663568389.261626431]: I heard: [hello world 313]
[ INFO] [1663568389.361510752]: I heard: [hello world 314]
[ INFO] [1663568389.461646645]: I heard: [hello world 315]
[ INFO] [1663568389.561647199]: I heard: [hello world 316]
[ INFO] [1663568389.661650412]: I heard: [hello world 317]
[ INFO] [1663568389.761651390]: I heard: [hello world 318]
[ INFO] [1663568389.861641646]: I heard: [hello world 319]
```