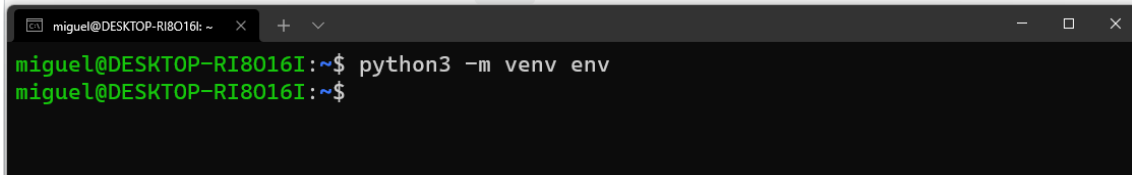


EJERCICIOS PARA LA KATA 2

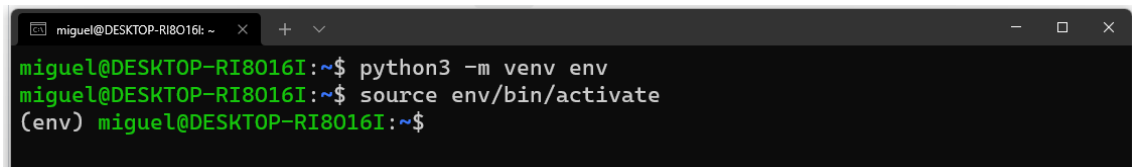
Crear un entorno virtual

Crea un entorno virtual mediante ``venv``



```
miguel@DESKTOP-RI8016I: ~$ python3 -m venv env
miguel@DESKTOP-RI8016I: ~$
```

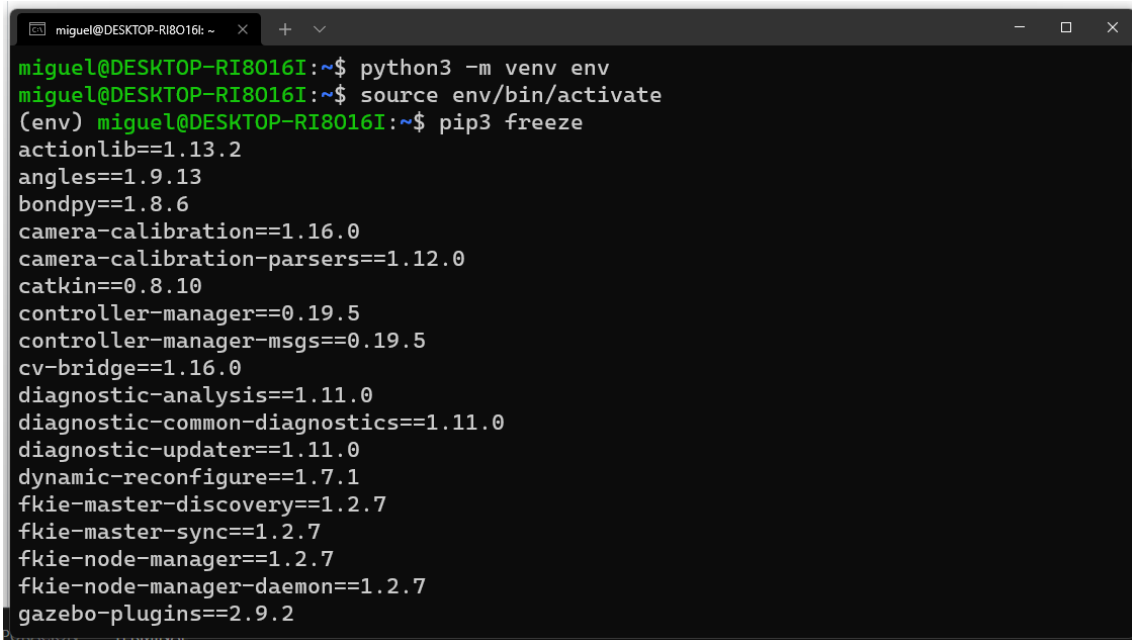
Ejecuta el comando para activar el entorno virtual: ``source env/bin/activate``



```
miguel@DESKTOP-RI8016I: ~$ python3 -m venv env
miguel@DESKTOP-RI8016I: ~$ source env/bin/activate
(env) miguel@DESKTOP-RI8016I: ~$
```

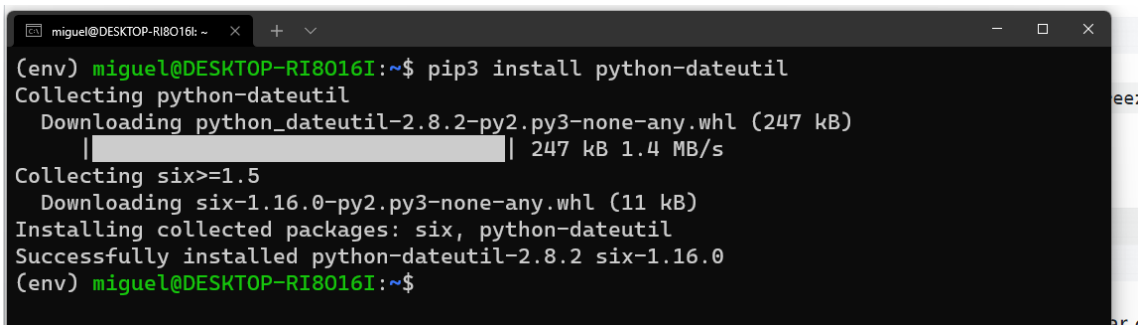
Instalar una biblioteca

Ejecuta el comando ``pip freeze`` para ver las bibliotecas instaladas en tu entorno



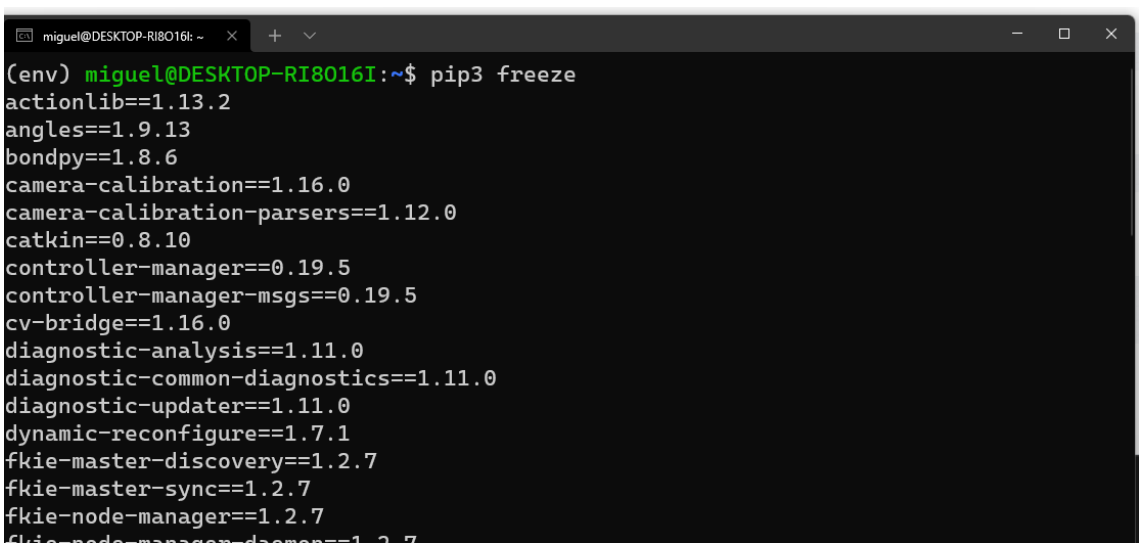
```
miguel@DESKTOP-RI8016I: ~$ python3 -m venv env
miguel@DESKTOP-RI8016I: ~$ source env/bin/activate
(env) miguel@DESKTOP-RI8016I: ~$ pip3 freeze
actionlib==1.13.2
angles==1.9.13
bondpy==1.8.6
camera-calibration==1.16.0
camera-calibration-parsers==1.12.0
catkin==0.8.10
controller-manager==0.19.5
controller-manager-msgs==0.19.5
cv-bridge==1.16.0
diagnostic-analysis==1.11.0
diagnostic-common-diagnostics==1.11.0
diagnostic-updater==1.11.0
dynamic-reconfigure==1.7.1
fkie-master-discovery==1.2.7
fkie-master-sync==1.2.7
fkie-node-manager==1.2.7
fkie-node-manager-daemon==1.2.7
gazebo-plugins==2.9.2
```

Ejecuta el comando ``pip install`` para instalar una biblioteca:



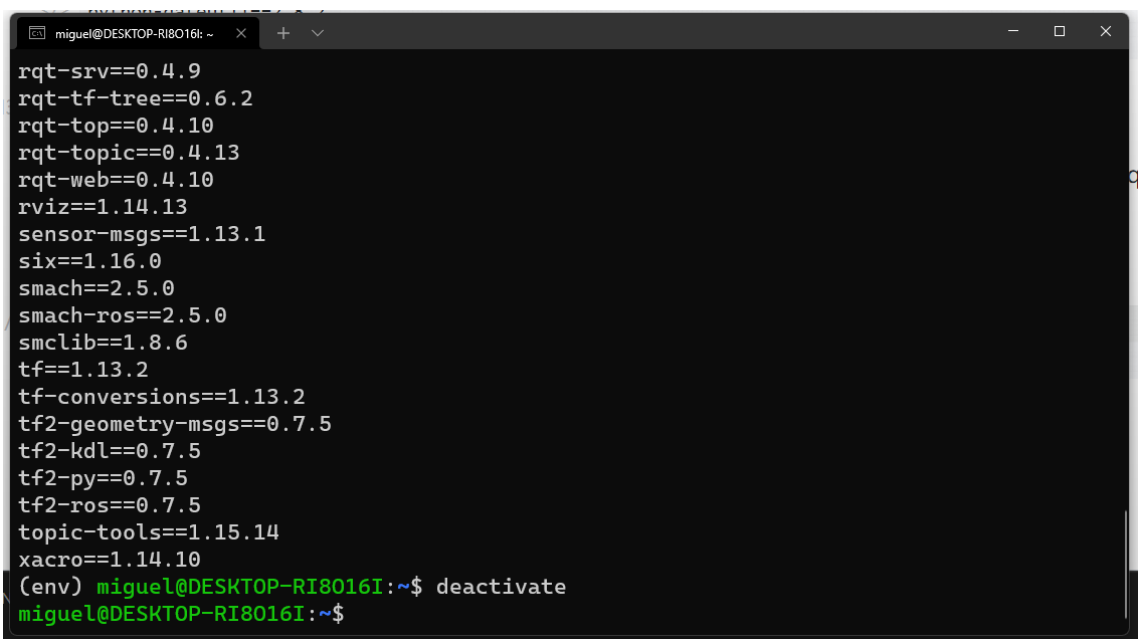
```
miguel@DESKTOP-RI8016t: ~  
(env) miguel@DESKTOP-RI8016I:~$ pip3 install python-dateutil  
Collecting python-dateutil  
  Downloading python_dateutil-2.8.2-py2.py3-none-any.whl (247 kB)  
    | 247 kB 1.4 MB/s  
Collecting six>=1.5  
  Downloading six-1.16.0-py2.py3-none-any.whl (11 kB)  
Installing collected packages: six, python-dateutil  
Successfully installed python-dateutil-2.8.2 six-1.16.0  
(env) miguel@DESKTOP-RI8016I:~$
```

Vuelve a ejecutar ``pip freeze`` para ver cómo ha cambiado tu lista de bibliotecas:



```
miguel@DESKTOP-RI8016t: ~  
(env) miguel@DESKTOP-RI8016I:~$ pip3 freeze  
actionlib==1.13.2  
angles==1.9.13  
bondpy==1.8.6  
camera-calibration==1.16.0  
camera-calibration-parsers==1.12.0  
catkin==0.8.10  
controller-manager==0.19.5  
controller-manager-msgs==0.19.5  
cv-bridge==1.16.0  
diagnostic-analysis==1.11.0  
diagnostic-common-diagnostics==1.11.0  
diagnostic-updater==1.11.0  
dynamic-reconfigure==1.7.1  
fkie-master-discovery==1.2.7  
fkie-master-sync==1.2.7  
fkie-node-manager==1.2.7  
fkie-node-manager-daemon==1.2.7
```

Ejecuta el comando ``deactivate``:



```
miguel@DESKTOP-RI8016t: ~  
rqt-srv==0.4.9  
rqt-tf-tree==0.6.2  
rqt-top==0.4.10  
rqt-topic==0.4.13  
rqt-web==0.4.10  
rviz==1.14.13  
sensor-msgs==1.13.1  
six==1.16.0  
smach==2.5.0  
smach-ros==2.5.0  
smclib==1.8.6  
tf==1.13.2  
tf-conversions==1.13.2  
tf2-geometry-msgs==0.7.5  
tf2-kdl==0.7.5  
tf2-py==0.7.5  
tf2-ros==0.7.5  
topic-tools==1.15.14  
xacro==1.14.10  
(env) miguel@DESKTOP-RI8016I:~$ deactivate  
miguel@DESKTOP-RI8016I:~$
```