## 4. Testing your MQTT Communication:

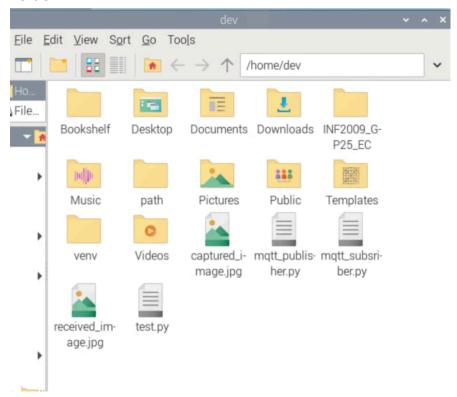
```
File Edit Tabs Help
 Location: /home/dev/venv/lib/python3.11/site-packages
Requires:
Required-by:
 (venv) dev@ed001:~ $ pip install paho-mqtt==1.6.1
                                                                                                                          Lo
oking in indexes: https://pypi.org/simple, https://www.piwheels.org/simple
Collecting paho-mqtt==1.6.1
   Downloading https://www.piwheels.org/simple/paho-mqtt/paho_mqtt-1.6.1-py3-none
 any.whl (75 kB)
                                                                 - 75.6/75.6 kB 258.4 kB/s eta 0:00:00
Installing collected packages: paho-mqtt
   Attempting uninstall: paho-mqtt
      Found existing installation: paho-mqtt 2.1.0
      Uninstalling paho-mqtt-2.1.0:
         Successfully uninstalled paho-mqtt-2.1.0
Successfully installed paho-mqtt-1.6.1
 (venv) dev@ed001:~ $ python mqtt_subscriber.py
(venv) dev@ed001:~ $ python mqtt_subscriber.py
Received message 'Hello, MQTT!' on topic 'test/topic'
 File Edit Tabs Help
 CTraceback (most recent call last):
   File "/home/dev/mqtt_publisher.py", line 9, in <module>
      time.sleep(5)
 KeyboardInterrupt
 (venv) dev@ed001:~ $ python mqtt_publisher.py
 CTraceback (most recent call last):
   File "/home/dev/mqtt_publisher.py", line 9, in <module>
      time.sleep(5)
 KeyboardInterrupt
 (venv) dev@ed001:~ $ python mqtt_publisher.py
 CTraceback (most recent call last):
   File "/home/dev/mqtt_publisher.py", line 9, in <module>
      time.sleep(5)
 KeyboardInterrupt
 (venv) dev@ed001:~ $ python mqtt_publisher.py
 CTraceback (most recent call last):
   File "/home/dev/mqtt_publisher.py", line 9, in <module>
      time.sleep(5)
 KeyboardInterrupt
 (venv) dev@ed001:~ $
```

## Lab Assignment:

Subscriber and Publisher

```
dev@ed001: ~
File Edit Tabs Help
756, in loop_forever
   rc = self._loop(timeout)
 File "/home/dev/venv/lib/python3.11/site-packages/paho/mqtt/client.py", line 1
150, in _loop
   socklist = select.select(rlist, wlist, [], timeout)
KeyboardInterrupt
venv) dev@ed001:~ $ ^C
venv) dev@ed001:~ $ python mqtt_subsriber.py
Listening for image requests on 'image/request'...
Received request on topic 'image/request': capture
Warming up camera...
Image saved as captured_image.jpg
Image published to topic 'image/response'
Received request on topic 'image/request': capture
Warming up camera...
Image saved as captured_image.jpg
Image published to topic 'image/response'
Received request on topic 'image/request': capture
Warming up camera...
Image saved as captured_image.jpg
Image published to topic 'image/response'
Received request on topic 'image/request': capture
Warming up camera...
Image saved as captured_image.jpg
[mage published to topic 'image/response'
File Edit Tabs Help
Requesting an image by publishing to topic 'image/request'...
Listening for images on topic 'image/response'...
Received image data on topic 'image/response'
Image saved as received_image.jpg
^CTraceback (most recent call last):
 File "/home/dev/mqtt_publisher.py", line 29, in <module>
   client.loop_forever()
 File "/home/dev/venv/lib/python3.11/site-packages/paho/mqtt/client.py", line 1
756, in loop_forever
   rc = self._loop(timeout)
 File "/home/dev/venv/lib/python3.11/site-packages/paho/mgtt/client.py", line 1
150, in _loop
   socklist = select.select(rlist, wlist, [], timeout)
KeyboardInterrupt
venv) dev@ed001:~ $ ^C
(venv) dev@ed001:~ $ python mqtt_publisher.py
Requesting an image by publishing to topic 'image/request'...
Listening for images on topic 'image/response'...
Received image data on topic 'image/response'
[mage saved as received_image.jpg
```

## Folder:



## **Received Image:**

