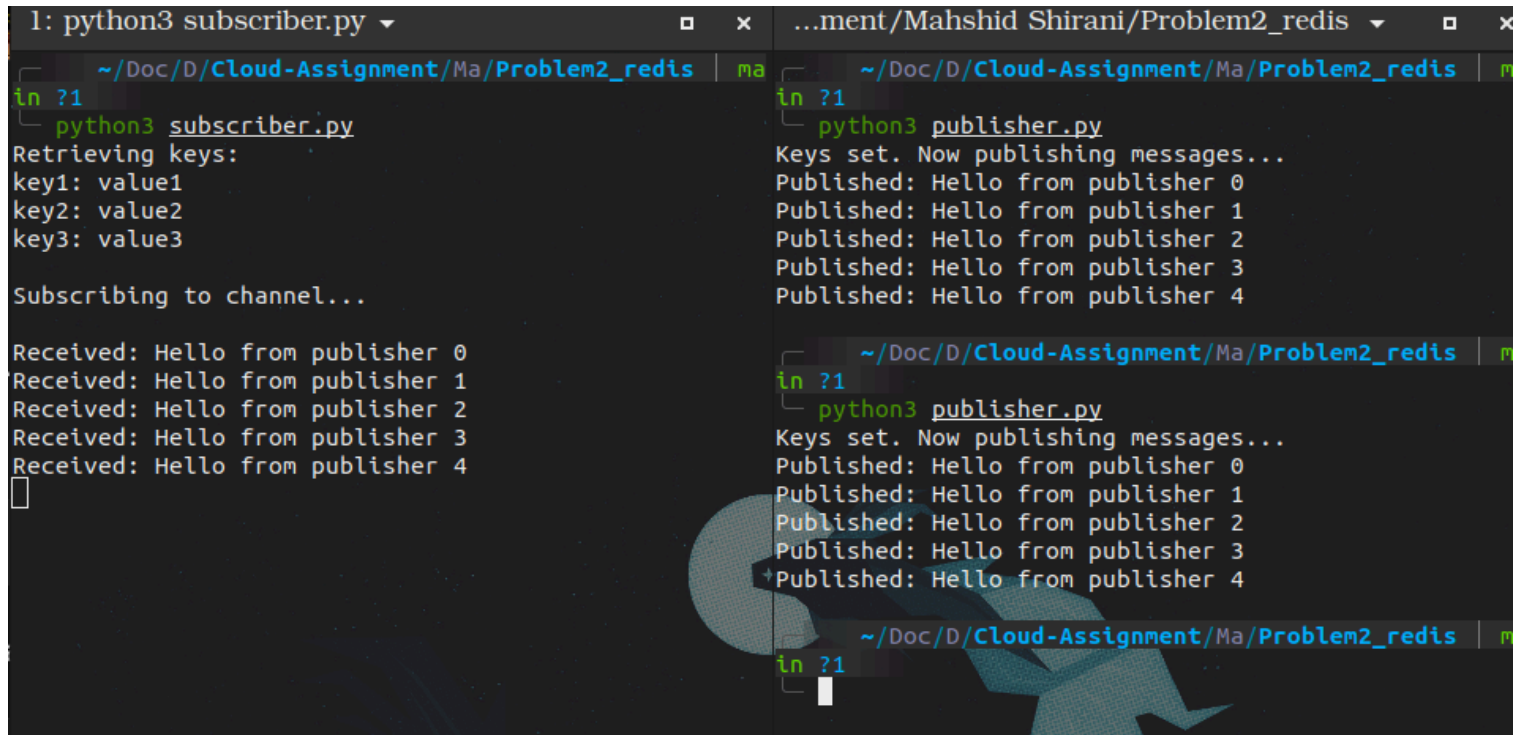


## Problem2\_screenshots



The image shows two terminal windows side-by-side. The left window is titled '1: python3 subscriber.py' and shows the output of a subscriber script. It first retrieves keys (key1: value1, key2: value2, key3: value3), then subscribes to a channel, and finally receives five messages: 'Hello from publisher 0' through 'Hello from publisher 4'. The right window is titled '...ment/Mahshid Shirani/Problem2\_redis' and shows the output of a publisher script. It sets keys and then publishes five messages: 'Hello from publisher 0' through 'Hello from publisher 4'.

```
1: python3 subscriber.py
~/Doc/D/Cloud-Assignment/Ma/Problem2_redis
in ?1
python3 subscriber.py
Retrieving keys:
key1: value1
key2: value2
key3: value3

Subscribing to channel...

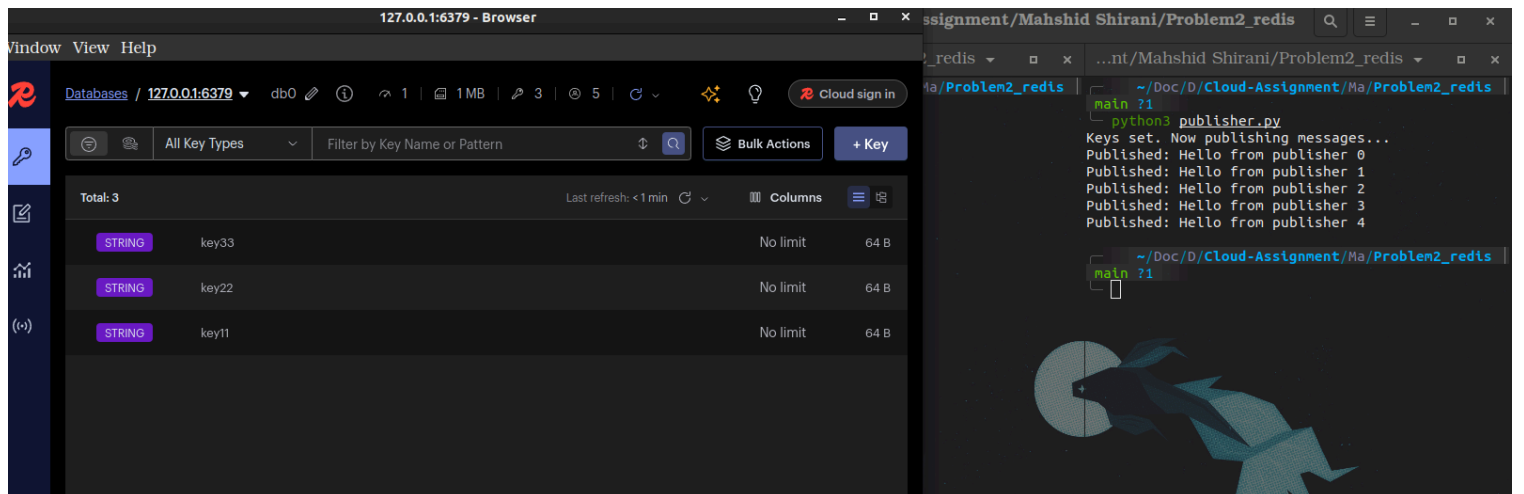
Received: Hello from publisher 0
Received: Hello from publisher 1
Received: Hello from publisher 2
Received: Hello from publisher 3
Received: Hello from publisher 4
[]

~/Doc/D/Cloud-Assignment/Ma/Problem2_redis
in ?1
python3 publisher.py
Keys set. Now publishing messages...
Published: Hello from publisher 0
Published: Hello from publisher 1
Published: Hello from publisher 2
Published: Hello from publisher 3
Published: Hello from publisher 4

~/Doc/D/Cloud-Assignment/Ma/Problem2_redis
in ?1
python3 publisher.py
Keys set. Now publishing messages...
Published: Hello from publisher 0
Published: Hello from publisher 1
Published: Hello from publisher 2
Published: Hello from publisher 3
Published: Hello from publisher 4

~/Doc/D/Cloud-Assignment/Ma/Problem2_redis
in ?1
```

همانطور که مشاهده میشود، در ابتدا publisher کلید ها را ست میکند و سپس روی channel پیام میفرستد. در آن طرف، subscriber آنها را دریافت کرده و چاپ میکند.

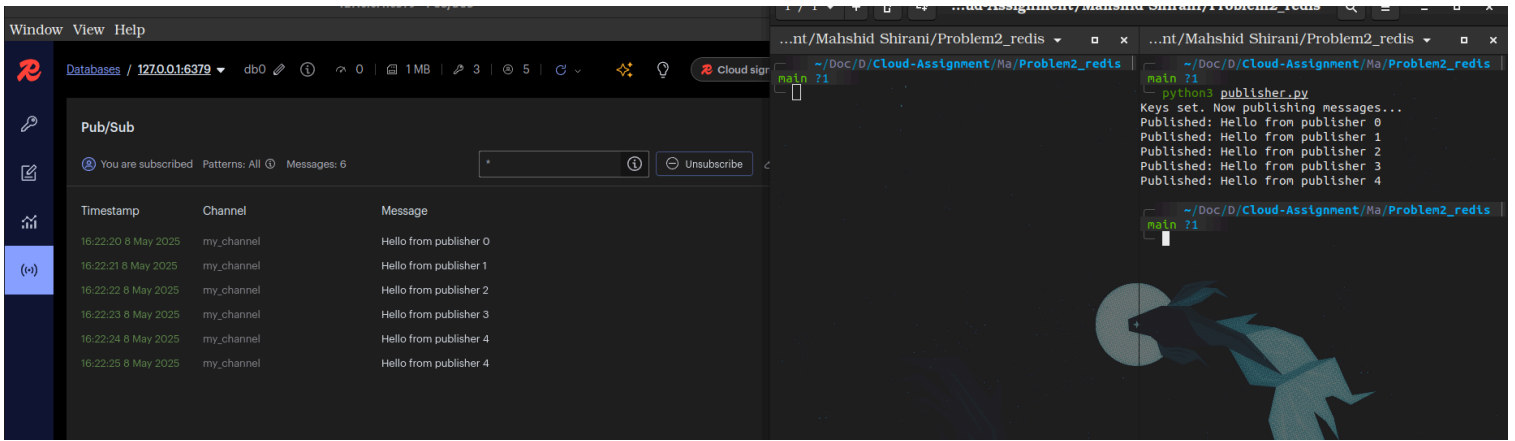


The image shows the Redis Insight web interface in a browser. The address bar shows '127.0.0.1:6379 - Browser'. The interface displays a table of keys in the 'db0' database. There are three keys listed: 'key33', 'key22', and 'key11', all of type 'STRING' and with a size of 64 B. The table has columns for key type, key name, and size. The interface also includes a search bar, a filter by key name or pattern, and a 'Bulk Actions' button.

Key Type	Key Name	Size
STRING	key33	64 B
STRING	key22	64 B
STRING	key11	64 B

همچنین اگر از redis insight استفاده کنیم، میتوانیم کلید های ست شده را مشاهده کنیم.

در قسمت pub/sub نیز میتوان به صورت live، پیام ها را مشاهده کرد.



The screenshot displays a Redis Pub/Sub interface on the left and a terminal window on the right. The interface shows a table of messages received on the 'my\_channel'.

Timestamp	Channel	Message
16:22:20 8 May 2025	my_channel	Hello from publisher 0
16:22:21 8 May 2025	my_channel	Hello from publisher 1
16:22:22 8 May 2025	my_channel	Hello from publisher 2
16:22:23 8 May 2025	my_channel	Hello from publisher 3
16:22:24 8 May 2025	my_channel	Hello from publisher 4
16:22:25 8 May 2025	my_channel	Hello from publisher 4

The terminal window on the right shows the execution of a Python script named 'publisher.py'. The output of the script is as follows:

```
~/Doc/D/Cloud-Assignment/Ma/Problem2_redis  
main ?1  
python3 publisher.py  
Keys set. Now publishing messages...  
Published: Hello from publisher 0  
Published: Hello from publisher 1  
Published: Hello from publisher 2  
Published: Hello from publisher 3  
Published: Hello from publisher 4  
~/Doc/D/Cloud-Assignment/Ma/Problem2_redis  
main ?1
```