```
Last login: Sun May 11 17:02:13 on ttys025
(base) sathwik@SATHWIKs-MacBook-Air Flower_Main % conda activate flec_env
(flec_env) sathwik@SATHWIKs-MacBook-Air Flower_Main % python client11.py
WARNING :   DEPRECATED FEATURE: flwr.client.start_numpy_client() is deprecated.
        Instead, use `flwr.client.start_client()` by ensuring you first call the `.to_client()` method as shown below:
        flwr.client.start_client(
                server_address='<IP>:<PORT>',
                client=FlowerClient().to_client(), # <-- where FlowerClient is of type flwr.client.NumPyClient object
        )
        Using `start_numpy_client()` is deprecated.

            This is a deprecated feature. It will be removed
            entirely in future versions of Flower.

WARNING :   DEPRECATED FEATURE: flwr.client.start_client() is deprecated.
        Instead, use the `flower-supernode` CLI command to start a SuperNode as shown below:

                $ flower-supernode --insecure --superlink='<IP>:<PORT>'

        To view all available options, run:

                $ flower-supernode --help

        Using `start_client()` is deprecated.

            This is a deprecated feature. It will be removed
            entirely in future versions of Flower.

Traceback (most recent call last):
  File "/Users/sathwik/VISUAL STUDIO CODE/FLEC/Flower_Main/client11.py", line 51, in <module>
    fl.client.start_numpy_client(
  File "/Users/sathwik/opt/anaconda3/envs/flec_env/lib/python3.9/site-packages/flwr/client/app.py", line 731, in start_numpy_client
    start_client(
  File "/Users/sathwik/opt/anaconda3/envs/flec_env/lib/python3.9/site-packages/flwr/client/app.py", line 201, in start_client
    start_client_internal(
  File "/Users/sathwik/opt/anaconda3/envs/flec_env/lib/python3.9/site-packages/flwr/client/app.py", line 438, in start_client_internal
    message = receive()
  File "/Users/sathwik/opt/anaconda3/envs/flec_env/lib/python3.9/site-packages/flwr/client/grpc_client/connection.py", line 142, in receive
    proto = next(server_message_iterator)
  File "/Users/sathwik/opt/anaconda3/envs/flec_env/lib/python3.9/site-packages/grpc/_channel.py", line 543, in __next__
    return self._next()
  File "/Users/sathwik/opt/anaconda3/envs/flec_env/lib/python3.9/site-packages/grpc/_channel.py", line 969, in _next
    raise self
grpc._channel._MultiThreadedRendezvous: <_MultiThreadedRendezvous of RPC that terminated with:
        status = StatusCode.UNAVAILABLE
        details = "failed to connect to all addresses; last error: UNKNOWN: ipv4:127.0.0.1:5040: Failed to connect to remote host: connect: Connection refused
 (61)"
        debug_error_string = "UNKNOWN:Error received from peer  {grpc_message:"failed to connect to all addresses; last error: UNKNOWN: ipv4:127.0.0.1:5040: F
ailed to connect to remote host: connect: Connection refused (61)", grpc_status:14, created_time:"2025-05-11T17:07:23.860383-04:00"}"
>
(flec_env) sathwik@SATHWIKs-MacBook-Air Flower_Main % python client11.py
WARNING :   DEPRECATED FEATURE: flwr.client.start_numpy_client() is deprecated.
        Instead, use `flwr.client.start_client()` by ensuring you first call the `.to_client()` method as shown below:
        flwr.client.start_client(
                server_address='<IP>:<PORT>',
                client=FlowerClient().to_client(), # <-- where FlowerClient is of type flwr.client.NumPyClient object
        )
        Using `start_numpy_client()` is deprecated.

            This is a deprecated feature. It will be removed
            entirely in future versions of Flower.

WARNING :   DEPRECATED FEATURE: flwr.client.start_client() is deprecated.
        Instead, use the `flower-supernode` CLI command to start a SuperNode as shown below:

                $ flower-supernode --insecure --superlink='<IP>:<PORT>'

        To view all available options, run:

                $ flower-supernode --help

        Using `start_client()` is deprecated.

            This is a deprecated feature. It will be removed
            entirely in future versions of Flower.

Traceback (most recent call last):
  File "/Users/sathwik/VISUAL STUDIO CODE/FLEC/Flower_Main/client11.py", line 51, in <module>
    fl.client.start_numpy_client(
  File "/Users/sathwik/opt/anaconda3/envs/flec_env/lib/python3.9/site-packages/flwr/client/app.py", line 731, in start_numpy_client
    start_client(
  File "/Users/sathwik/opt/anaconda3/envs/flec_env/lib/python3.9/site-packages/flwr/client/app.py", line 201, in start_client
    start_client_internal(
  File "/Users/sathwik/opt/anaconda3/envs/flec_env/lib/python3.9/site-packages/flwr/client/app.py", line 438, in start_client_internal
    message = receive()
  File "/Users/sathwik/opt/anaconda3/envs/flec_env/lib/python3.9/site-packages/flwr/client/grpc_client/connection.py", line 142, in receive
    proto = next(server_message_iterator)
  File "/Users/sathwik/opt/anaconda3/envs/flec_env/lib/python3.9/site-packages/grpc/_channel.py", line 543, in __next__
    return self._next()
  File "/Users/sathwik/opt/anaconda3/envs/flec_env/lib/python3.9/site-packages/grpc/_channel.py", line 969, in _next
    raise self
grpc._channel._MultiThreadedRendezvous: <_MultiThreadedRendezvous of RPC that terminated with:
        status = StatusCode.UNAVAILABLE
        details = "failed to connect to all addresses; last error: UNKNOWN: ipv4:127.0.0.1:5040: Failed to connect to remote host: connect: Connection refused
 (61)"
        debug_error_string = "UNKNOWN:Error received from peer  {grpc_message:"failed to connect to all addresses; last error: UNKNOWN: ipv4:127.0.0.1:5040: F
ailed to connect to remote host: connect: Connection refused (61)", grpc_status:14, created_time:"2025-05-11T17:13:47.034222-04:00"}"
>
(flec_env) sathwik@SATHWIKs-MacBook-Air Flower_Main % python client11.py
WARNING :   DEPRECATED FEATURE: flwr.client.start_numpy_client() is deprecated.
        Instead, use `flwr.client.start_client()` by ensuring you first call the `.to_client()` method as shown below:
        flwr.client.start_client(
                server_address='<IP>:<PORT>',
                client=FlowerClient().to_client(), # <-- where FlowerClient is of type flwr.client.NumPyClient object
```

```
        )
        Using `start_numpy_client()` is deprecated.

                This is a deprecated feature. It will be removed
                entirely in future versions of Flower.

WARNING :    DEPRECATED FEATURE: flwr.client.start_client() is deprecated.
        Instead, use the `flower-supernode` CLI command to start a SuperNode as shown below:

                $ flower-supernode --insecure --superlink='<IP>:<PORT>'

        To view all available options, run:

                $ flower-supernode --help

        Using `start_client()` is deprecated.

                This is a deprecated feature. It will be removed
                entirely in future versions of Flower.

Traceback (most recent call last):
  File "/Users/sathwik/VISUAL STUDIO CODE/FLEC/Flower_Main/client11.py", line 51, in <module>
    fl.client.start_numpy_client(
  File "/Users/sathwik/opt/anaconda3/envs/flec_env/lib/python3.9/site-packages/flwr/client/app.py", line 731, in start_numpy_client
    start_client(
  File "/Users/sathwik/opt/anaconda3/envs/flec_env/lib/python3.9/site-packages/flwr/client/app.py", line 201, in start_client
    start_client_internal(
  File "/Users/sathwik/opt/anaconda3/envs/flec_env/lib/python3.9/site-packages/flwr/client/app.py", line 438, in start_client_internal
    message = receive()
  File "/Users/sathwik/opt/anaconda3/envs/flec_env/lib/python3.9/site-packages/flwr/client/grpc_client/connection.py", line 142, in receive
    proto = next(server_message_iterator)
  File "/Users/sathwik/opt/anaconda3/envs/flec_env/lib/python3.9/site-packages/grpc/_channel.py", line 543, in __next__
    return self._next()
  File "/Users/sathwik/opt/anaconda3/envs/flec_env/lib/python3.9/site-packages/grpc/_channel.py", line 969, in _next
    raise self
grpc._channel._MultiThreadedRendezvous: <_MultiThreadedRendezvous of RPC that terminated with:
        status = StatusCode.UNAVAILABLE
        details = "failed to connect to all addresses; last error: UNKNOWN: ipv4:127.0.0.1:5040: Failed to connect to remote host: connect: Connection refused
 (61)"
        debug_error_string = "UNKNOWN:Error received from peer  {grpc_message:"failed to connect to all addresses; last error: UNKNOWN: ipv4:127.0.0.1:5040: F
ailed to connect to remote host: connect: Connection refused (61)", grpc_status:14, created_time:"2025-05-11T17:23:30.862335-04:00"}"
>
(flec_env) sathwik@SATHWIKs-MacBook-Air Flower_Main % python client11.py
WARNING :    DEPRECATED FEATURE: flwr.client.start_numpy_client() is deprecated.
        Instead, use `flwr.client.start_client()` by ensuring you first call the `.to_client()` method as shown below:
        flwr.client.start_client(
                server_address='<IP>:<PORT>',
                client=FlowerClient().to_client(), # <-- where FlowerClient is of type flwr.client.NumPyClient object
        )
        Using `start_numpy_client()` is deprecated.

                This is a deprecated feature. It will be removed
                entirely in future versions of Flower.

WARNING :    DEPRECATED FEATURE: flwr.client.start_client() is deprecated.
        Instead, use the `flower-supernode` CLI command to start a SuperNode as shown below:

                $ flower-supernode --insecure --superlink='<IP>:<PORT>'

        To view all available options, run:

                $ flower-supernode --help

        Using `start_client()` is deprecated.

                This is a deprecated feature. It will be removed
                entirely in future versions of Flower.

Traceback (most recent call last):
  File "/Users/sathwik/VISUAL STUDIO CODE/FLEC/Flower_Main/client11.py", line 51, in <module>
    fl.client.start_numpy_client(
  File "/Users/sathwik/opt/anaconda3/envs/flec_env/lib/python3.9/site-packages/flwr/client/app.py", line 731, in start_numpy_client
    start_client(
  File "/Users/sathwik/opt/anaconda3/envs/flec_env/lib/python3.9/site-packages/flwr/client/app.py", line 201, in start_client
    start_client_internal(
  File "/Users/sathwik/opt/anaconda3/envs/flec_env/lib/python3.9/site-packages/flwr/client/app.py", line 438, in start_client_internal
    message = receive()
  File "/Users/sathwik/opt/anaconda3/envs/flec_env/lib/python3.9/site-packages/flwr/client/grpc_client/connection.py", line 142, in receive
    proto = next(server_message_iterator)
  File "/Users/sathwik/opt/anaconda3/envs/flec_env/lib/python3.9/site-packages/grpc/_channel.py", line 543, in __next__
    return self._next()
  File "/Users/sathwik/opt/anaconda3/envs/flec_env/lib/python3.9/site-packages/grpc/_channel.py", line 969, in _next
    raise self
grpc._channel._MultiThreadedRendezvous: <_MultiThreadedRendezvous of RPC that terminated with:
        status = StatusCode.UNAVAILABLE
        details = "Cancelling all calls"
        debug_error_string = "UNKNOWN:Error received from peer  {created_time:"2025-05-11T17:26:58.992784-04:00", grpc_status:14, grpc_message:"Cancelling all
 calls"}"
>
(flec_env) sathwik@SATHWIKs-MacBook-Air Flower_Main % python client11.py
WARNING :    DEPRECATED FEATURE: flwr.client.start_numpy_client() is deprecated.
        Instead, use `flwr.client.start_client()` by ensuring you first call the `.to_client()` method as shown below:
        flwr.client.start_client(
                server_address='<IP>:<PORT>',
                client=FlowerClient().to_client(), # <-- where FlowerClient is of type flwr.client.NumPyClient object
        )
        Using `start_numpy_client()` is deprecated.

                This is a deprecated feature. It will be removed
                entirely in future versions of Flower.

WARNING :    DEPRECATED FEATURE: flwr.client.start_client() is deprecated.
        Instead, use the `flower-supernode` CLI command to start a SuperNode as shown below:
```

```
        $ flower-supernode --insecure --superlink='<IP>:<PORT>'

    To view all available options, run:

        $ flower-supernode --help

    Using `start_client()` is deprecated.

        This is a deprecated feature. It will be removed
        entirely in future versions of Flower.

INFO :
INFO :      Received: train message 1ad26b15-7419-403b-a203-ea6e6af4384d
Training finished for round 1
INFO :      Sent reply
INFO :
INFO :      Received: train message 8d5bee2e-8f7f-4424-ad2d-783f065e3088
Training finished for round 2
INFO :      Sent reply
INFO :
INFO :      Received: train message ab6f6212-4b3e-402e-9bf5-71484b306bff
Training finished for round 3
INFO :      Sent reply
INFO :
INFO :      Received: train message c1bd430c-c330-45d7-83fc-fcdecc827911
Training finished for round 4
INFO :      Sent reply
INFO :
INFO :      Received: train message 25743014-24b1-41a8-a45d-1dce6568e530
Training finished for round 5
INFO :      Sent reply
INFO :
INFO :      Received: train message 147ee20c-15b0-49cb-a8eb-b434c9fb5177
Training finished for round 6
INFO :      Sent reply
INFO :
INFO :      Received: train message 2cdbf2c3-d6e9-4893-a09e-ea3cec076333
Training finished for round 7
INFO :      Sent reply
INFO :
INFO :      Received: train message cb5e420f-d7d8-4ff5-8d06-02723e4b276d
Training finished for round 8
INFO :      Sent reply
INFO :
INFO :      Received: train message 39677a69-9afd-404f-aace-eb4ed0e9af49
Training finished for round 9
INFO :      Sent reply
INFO :
INFO :      Received: train message ba0ef299-57c3-4c4d-8033-571a3b1f89de
Training finished for round 10
INFO :      Sent reply
INFO :
INFO :      Received: reconnect message 166edd4f-d091-4159-8614-4dbf6d4b3149
INFO :      Disconnect and shut down
(flec_env) sathwik@SATHWIKs-MacBook-Air Flower_Main %
```