

## README

Name: Parwani Jayati

## How to Run the Code

### Initial Steps

- Ensure python3 is installed in your desktop
- cd to boa\_code\_jayati folder
- compile and run parse\_data.py. Output console should display the results and an index.html is created/updated in templates folder.
- You should see this on your output console:

```
[Running] python -u "/Users/jayatiparwani/boa_code/parse_data.py"
Basic proofing check passed, as the SWIFT data contains a statement id, header, and the SWIFT BIC codes for sender and reciever. 100-01
OPBD Balance is the same.

```

		Account	Currency	Balance	AsOfDateTS	Type	Source	Difference
0	5491-00003011-MULT		SGD	12052345.27	2022-07-04T11:00:00+00:00	CLBD	Ledger	NaN
1	5491-00003011-MULT		SGD	15052345.27	2022-07-04	CLBD	SWIFT	3000000.0

```

Difference between the CLBD balance in SWIFT and Ledger (as in SWIFT-LEDGER) is 3000000.0
Total difference between SWIFT and Ledger Transactions (as in SWIFT-LEDGER) is -3000000.0
Transaction Table Breaks:

```

		Account	Balance	TotalAmount	Entries	Type	MessageID	PaymentID	Difference
0	5491-00003011-MULT	1000000	11000000.0	11	Ledger	None	None	None	NaN
1	5491-00003011-MULT	1000000	10000000.0	10	SWIFT	FINP-0055/002	FINP-0055/002	FINP-0055/002	-1000000.0
0	5491-00003011-MULT	2000000	12000000.0	6	Ledger	None	None	None	NaN
1	5491-00003011-MULT	2000000	10000000.0	5	SWIFT	FINP-0055/003	FINP-0055/003	FINP-0055/003	-2000000.0

```

[Done] exited with code=0 in 1.46 seconds

```

### Run Flask

- Start a new terminal session.
- cd to boa\_code\_jayati directory. (You may not need to do this if you are running vs code terminal)
- run --> \$ python3 "flask\_framework.py" in your terminal <refer to image>
- If you see the link: <http://127.0.0.1:5000> in your terminal, copy paste this link in your browser (preferred: Chrome/Safari) and you should be able to see the results in the expected results screenshot.

```

▼ TERMINAL
(base) Jayatis-MacBook-Pro:boa_code jayatiparwani$ python3 "flask_Framework.py"
* Serving Flask app 'flask_Framework' (lazy loading)
* Environment: production
  WARNING: This is a development server. Do not use it in a production deployment.
  Use a production WSGI server instead.
* Debug mode: off
* Running on http://127.0.0.1:5000 (Press CTRL+C to quit)

```

## Expected Results:

### Results of Balance and Transaction Reconciliation

#### Account Details

The following are reconciliation results of Account Number: **5491-00003011-MULT** for Statement ID: **100-01**

#### Basic Proofing

Basic proofing check passed, as the SWIFT data contains a statement id, header, and the SWIFT BIC codes for sender and reciever.

#### Balance Reconciliation

Balance Reconc: Account ID check passed

OPBD Balance is the same.

However there is a **break** in the data shown below:

	Account	Currency	Balance	AsOfDateTS	Type	Source	Difference
0	5491-00003011-MULT	SGD	12052345.27	2022-07-04T11:00:00+00:00	CLBD	Ledger	NaN
1	5491-00003011-MULT	SGD	15052345.27	2022-07-04	CLBD	SWIFT	3000000.0

Difference between the CLBD balance in SWIFT and Ledger (as in SWIFT-LEDGER) is 3000000.0

In case of you are unable to view expected results and get the errors:

- If flask is not installed, install flask using the command:

run --> \$ pip3 install flask after you cd to boa\_code\_directory

- If you get the error below, your port 5000 is already in use.

```
(base) Jayatis-MacBook-Pro:boa_code jayatiparwani$ python3 "flask_Framework.py"
* Serving Flask app 'flask_Framework' (lazy loading)
* Environment: production
  WARNING: This is a development server. Do not use it in a production deployment.
  Use a production WSGI server instead.
* Debug mode: off
Address already in use
Port 5000 is in use by another program. Either identify and stop that program, or start the server with a different port.
On macOS, try disabling the 'AirPlay Receiver' service from System Preferences -> Sharing.
(base) Jayatis-MacBook-Pro:boa_code jayatiparwani$
```

- If you get the error below, your port 5000 is already in use.
- kill this terminal session, start a new terminal session.
- run --> \$ sudo lsof -i :3000
- enter your laptop Password
- run --> \$ kill -9 <PID>
- PID above is the number you see in the table. Refer to screenshot of steps below
- Re-run steps in the last slide.
- In case, there are still errors, please open index.html directly from templates folder in boa\_code\_jayati folder and I have also attached a pdf of expected results called “results\_on\_webpage”

```
jayatiparwani — -bash — 112x24
Last login: Fri Jul 15 14:13:03 on ttys000
(base) Jayatis-MacBook-Pro:~ jayatiparwani$ sudo lsof -i :5000
Password:
COMMAND  PID    USER      FD  TYPE             DEVICE SIZE/OFF NODE NAME
python3.8 4239  jayatiparwani  4u  IPv4 0xe5e473d9ead2a035      0t0  TCP localhost:complex-main (LISTEN)
(base) Jayatis-MacBook-Pro:~ jayatiparwani$ kill -9 4239
(base) Jayatis-MacBook-Pro:~ jayatiparwani$
```