Hands on Exercise for Reference approach

- Task 1: Review the data provided in the excel sheet and identify any quality issues if any
- Task 2: Estimate the emissions for the time series data provided

```
CO_2 emissions = \sum_{all\ fuels} \left[ \left( (Apparent\ consumption* Conv\ factor* Carbon\ content) *\ 10^{-3} - Excluded\ carbon \right) *\ Carbon\ oxidation\ factor* 44/12 \right]
```

Apparent consumption = Total Import - Total Export - International bunkering - stock

Conv factor = NCV value from the table for the respective fuel type

Carbon content = Carbon content value from the table for the respective fuel type

Carbon oxidation factor = 1, (assuming all are fuel are combusting at 100%)





