# Homework 2

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# Overview

This quarto file is my homework 2 submission for Data 624 : Predictive Analytics.

## Chapter 3 Exercises (Hyndman)

```python
import pandas as pd # data wrangling
import numpy as np # linear algebra

# data visualization
import matplotlib.pyplot as plt
import seaborn as sns
```

**Exercise 1**

Consider the GDP information in global_economy.

Plot the GDP per capita for each country over time. Which country has the highest GDP per capita?

```python
# read in the data from R generated csv file
df_global_economy = pd.read_csv("data/global_economy.csv", parse_dates=["Year"], index_col=["Ye
df_global_economy["GDP_Per_Capita"] = (df_global_economy["GDP"] / df_global_economy["Populatio

# calculate gdp per capita
df_gdp_per_capita = df_global_economy[["Country", "GDP_Per_Capita","GDP", "Population"]]

#group by country
df_grouped = df_gdp_per_capita.groupby("Country")
```