

# template-ifn619-assignment1-partb

April 21, 2022

## 1 IFN619 - Assignment 1 - Part B

### 1.1 Foundational Techniques

#### INSTRUCTIONS

1. Complete the section below with your personal details (and run the cell)
2. Complete the full **QDAVI** data analytics cycle for both questions. Ensure that you complete the cycle by addressing the question with your insights.
3. Ensure that you use markdown cells to document your thinking and decision making for each stage of the process. Be clear on how your decisions are working towards addressing the question.
4. Ensure that your code runs without errors, and that your results are appropriate for the question.
5. Use comments in your code to explain what you are doing

```
[ ]: # Complete the following cell with your details and run to produce your
      ↪personalised header for this assignment

from IPython.core.display import display, HTML

first_name =
last_name =
student_number =

personal_header = "<h1>"+first_name+" "+last_name+" (" +student_number+")</h1>"
display(HTML(personal_header))
```

```
[ ]:
```

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### 1.2 QUESTION 1

**Question:** Using *Bureau of Meteorology* Climate Data Online, investigate the daily rainfall for Brisbane and identify significant periods of time during the last 3 years. Once you have found significant periods of time, compare Brisbane's rainfall for those periods with another Australian city of your choice. What insights can be gained from your analysis, and who might benefit from them?

**Data:** [BOM Climate Data Online](#)

```
[ ]: # import libraries for this question here
```

### 1.2.1 1.1 Question

*## Your interpretation of the question here ##*

### 1.2.2 1.2 Data

```
[ ]: # Import the data
# Clean/prepare the data for analysis
```

### 1.2.3 1.3 Analysis

```
[ ]: # Analyse the data - ensure that you at least use the required technique
```

### 1.2.4 1.4 Visualisation

```
[ ]: # Visualise the results
```

### 1.2.5 1.5 Insight

*## Your insights from the analysis. Ensure that you address the question ##*

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## 1.3 QUESTION 2

**Question:** Using *The Guardian* API, compare Australian and United Kingdom headlines about the war in Ukraine. What can we learn about differences and similarities between the news presented to Australia and the UK?

**Data:** [The Guardian OpenPlatform](#)

```
[ ]: # import libraries for this question here
```

### 1.3.1 2.1 Question

*## Your interpretation of the question here ##*

### 1.3.2 2.2 Data

```
[ ]: # Access the data via API
# Clean/prepare the data for analysis
```

### 1.3.3 2.3 Analysis

```
[ ]: # Analyse the data - ensure that you at least use the required technique
```

### 1.3.4 2.4 Visualisation

```
[ ]: # Visualise the results
```

### 1.3.5 2.5 Insight

*## Your insights from the analysis. Ensure that you address the question ##*