**SCHOOL OF COMPUTING**

**Programming for Data Science**

**Self-Reflection (CA2)**

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| **Instructions:**   1. Submit this together with your other deliverables at Blackboard “Assignments->CA2” folder 2. Name your file “YourModuleClass-YourStudentID-YourName.docx” |

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| **Your Student ID** | P2021487 |
| **Your Class** | DISM/FT/2B/23 |

# QUESTION 1: CHALLENGES - SELF-REFLECTION FOR CA2

Provide a reflection of the challenges you have faced in this assignment (CA2) with a comparison of those you faced in CA1. Did you manage to apply any learning experiences from the previous assignment to improve the way you did this assignment?

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| The main challenge faced in this assignment was the usage of pandas. In the first week of starting my assignment, I had faced many issues and errors when using pandas as I was rather unfamiliar with it when using it together with matplotlib or seaborn for plotting my charts. However, in the second week of starting my assignment, I slowly got used to using pandas, and saw the beauty of dataframes.  It was also difficult to craft a story at first, but I slowly got to doing it as I found many datasets which supported my research. The only issue with the datasets was finding one that I could do a scatterplot on.  The experience from the previous assignment helped me to get around plotting the charts rather easily once I got the hang of pandas. |

# QUESTION 2: ACHIEVEMENTS - SELF-REFLECTION FOR CA2

Provide a reflection of what you think you have personally achieved in this assignment. Do not be shy to highlight extra efforts you have put in for this assignment. This is the place for you to impress upon your tutor on your competency in this area.

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| One of the achievements I managed to accomplish was doing meaningful and complex data cleaning and manipulation in pandas, such as effectively using replace to replace strings in columns, or even changing the type of value in the columns altogether, to removing rows of data which were not relevant to my research.  I also was able to make the graphs created quite clear in what they are trying to show using the seaborn and matplotlib libraries. Furthermore, to make my research into a story, I had to carefully choose multiple different datasets from different categories, such as social, economic, and hosing datasets. |

# QUESTION 3: EVALUATE YOUR CA2

What grade do you think you deserve for CA2? Justify the grade you gave yourself with reasons.

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| What grade do you think you deserve for CA2?  I hope to get an A for CA2.  State your justifications here  I fulfilled all the requirements using pandas, matplotlib, and even seaborn, and even did more data cleaning using the pandas library. I had also used 6 datasets instead of the minimum of 3, as I think that it helped me to tell the story of Singapore’s population much better as well as draw better insights from the datasets. |

**-- End of Self-Reflection --**