# Practical 10 – CP2403

(Please ensure you show your work to your tutor once completed as each practical is 3 marks.)

**Part 1** – Download the Jupyter notebook for Module 10 and run the notebook

**Part 2**

Download the Jupyter Notebook Template for Prac 10 from LearnJCU. Complete the template & run the code. Refer to Module 10 Lecture Jupyter Notebook for help

Complete the questions in Part 3 as you work on the Prac 10 template

**Part 3**

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| **1: Time Series Plot** |
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| **2: Box Plot of Monthly Champagne Sales** |
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| **3: Rolling Mean & Standard Deviation Plot of Time Series** |
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| **4: Results of Dickey-Fuller Test of Time Series** |
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| **5: Log Plot of Time Series** |
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| **6: Seasonal Decompose plot of Time Series** |
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| **7: Rolling Mean & Standard Deviation Plot of Residual** |
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| **8: Results of Dickey-Fuller Test of Residual** |
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| **9: ACF and PACF plot** |
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| **10: p,q and q values** |
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| **11: ARIMA Plot** |
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| **12: Prediction Plot** |
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