# Practical 9 – 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 9 and run the notebook

**Part 2**

Download the Jupyter Notebook Template for Prac 9 from LearnJCU. Complete the template & run the code. Refer to Module 9 Lecture Jupyter Notebook for help

Complete the questions in Part 3 as you work on the Prac 9 template

**Part 3**

**Scenario 1**

Beer dependency (S2BQ1B1 - Categorical Explanatory variable) and number of beers consumed in a month (NUMBEERMO\_EST- Quantitative Response variable)

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| **1: Regression Analysis result** |
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| **2: Regression equation ( hint : slide 6)** |
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| **3. Conclusion** (hint : slide 7) |
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| **4. Bar Chart** |
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**Scenario 2**

**Perform Logistical Regression analysis between beer dependency (y=S2BQ1B1) and general anxiety (x=GENAXLIFE).**

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| **1: Regression Analysis results** |
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| **2: Lower Confidence Interval, Upper Confidence Interval, Odds Ratio** |
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| **3. Conclusion (hint slide 16)** |
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**Scenario 3**

**Perform Logistical Regression analysis between beer dependency (y=S2BQ1B1) and general anxiety (x1=GENAXLIFE) and minor depression (x2=DYSLIFE).**

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| **1: Regression Analysis results** |
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| **2: Lower Confidence Interval, Upper Confidence Interval, Odds Ratio** |
|  |
| **3. Conclusion (hint slide 20)** |
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**Scenario 4**

**Perform Logistical Regression analysis between beer dependency (y=S2BQ1B1) and panic disorder (x=PANIC).**

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| **1: Regression Analysis results** |
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| **2: Lower Confidence Interval, Upper Confidence Interval, Odds Ratio** |
|  |
| **3. Conclusion (hint : slide 22)** |
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**Scenario 5**

**Perform Logistical Regression analysis between beer dependency (y=S2BQ1B1) and panic disorder (x1=PANIC) and minor depression (x2=DYSLIFE).**

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| **1: Regression Analysis results** |
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| **2: Lower Confidence Interval, Upper Confidence Interval, Odds Ratio** |
|  |
| **3. Conclusion (hint : slide 24)** |
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