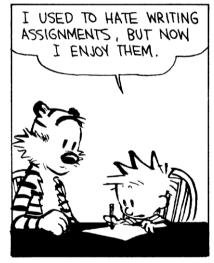
# A10

### **Lab Report (Results and Discussion)**

In this assignment, you will write the Results and Discussion sections of a Report based on the Chaotic Oscillator part of the X3 laboratory you undertook earlier this semester.



WITH A LITTLE PRACTICE, WRITING CAN BE AN INTIMIDATING AND IMPENETRABLE FOG! WANT TO SEE MY BOOK REPORT?



I REALIZED THAT THE PURPOSE OF WRITING IS TO INFLATE WEAK IDEAS, OBSCURE POOR REASONING, AND INHIBIT CLARITY.



"THE DYNAMICS OF INTERBEING AND MONOLOGICAL IMPERATIVES IN DICK AND JANE: A STUDY IN PSYCHIC TRANSRELATIONAL GENDER MODES."



Image: © Bill Watterson

#### **Schedule**

Preparation time : 5 hours

Assessment time : 1-2 hours (during your timetabled weekly tutorial session)

#### **Items provided**

Tools: n/a

Components : n/a
Equipment : n/a
Software : n/a

#### Items to bring

n/a

This is an individual assignment, and you should not do it with your lab partner or colleagues. This document outlines the details of the assignment.

**Academic Integrity** – This assignment is an individual exercise, and you should prepare for it and write it on your own.

#### **Revision History**

#### 1 Aims, Learning Outcomes and Outline

The aims of this assignment are:

- To give you experience of writing up your Results in a clear and concise manner.
- To give you experience of writing analytical statements with justified conclusions.
- To give you experience of critically reviewing and marking your own work.

Having successfully completed this assignment, you will be able to:

- Write concise and effective Results and Discussion sections of a report.
- Appreciate the purpose and meaning of a Marking Scheme.

In this assignment, you will write the Results and Discussion sections of a Report based on the Chaotic Oscillator part of the X3 laboratory you undertook earlier this semester. Your report must be submitted before the *submission deadline*, standard University late penalties will apply for any submissions after this. After submitting your report, you will discuss it in a tutorial session with your personal tutor and tutor group. You will then self-assess your own report, using the marking scheme provided in this document.

#### 2 Preparation

To prepare for this assignment you must have attended and carried out lab X3 and have watched the Technical Writing online lectures (L12 and L13). Pay particular attention to and review the videos on the Results and Discussion sections.

#### **3** The Assignment

As written assignments are an essential part of professional and student life, the feedback you gain from this assignment will be invaluable in developing this aspect of your skill set. The purpose of this assignment is not only to engage with the process of taking experimental and other forms of data and developing it for presentation in a written form, but also to engage with the marking process so as to better understand what is being looked for in this type of presentation.

For this assignment, you will produce a two page written document about the Chaotic Oscillator that you investigated in lab X3. Your report should consist of:

Results section (one-side of A4):

This should be a clearly written and structured passage of text containing a description of your data obtained from the lab session. It should also include figures or graphs showing that data in an appropriate format, with clearly explanatory figure captions. Figure captions, where possible, should make the figure self-contained in terms of understanding the content.

Discussion section (one-side of A4):

This should contain a written statement of your analysis of your data according to the methods outlined in the laboratory, your conclusions based on that analysis, with the *evidence* to support those conclusions clearly shown. Again, this might contain tables or figures showing the results of your analysis, presented in such a way as to support your arguments and to highlight the conclusions that you are attempting to draw.

More specific concepts about content and aspects of writing can be found by examining the marking scheme in more detail.

The page limit (one-side of A4 for each section) must be adhered to, and includes any tables or figures. Any text exceeding this limit will not be assessed. The body of your report should be in 10pt Times or Times New Roman.

#### 3.1 Marking with your tutor

Following the submission of this assignment, you will self-assess it in a tutorial session with your personal tutor, using the marking scheme included in this document. Your tutor will be able to discuss the marking scheme with you during this session and you will be able to discuss your submission with your fellow tutees. After the session, your tutor will submit the completed marking sheets for inclusion in your overall lab score.

This assignment should allow you to obtain direct formative feedback from your tutor as well as allowing you to explore the summative marking nature of this type of assessment. This will be then be used to inform the self-reflection component of the next writing assignment (A12), so should include areas for improvement and development.

The outline Marking Method is given in the Table below:

Section	Specific Criteria		Writing, structure and grammar	
	A	В	С	D
I: Results	Are the results chosen representative of the data? Are summary graphs correctly compiled with error or range bars?	Does the text of this section provide an accessible description of the operation of the experiments? Is it clear what the experimental parameters and settings were for each set of data?	Is this section written in a coherent way so that the relationship between, or the reason for collecting, each set of data is clear?	Use of words and spelling  • Are words spelled correctly?  • Are words with the correct meaning used in the correct places?  • Are the words used simple and free of ambiguous meaning?  Structure of sentences:  • Are sentences constructed simply and
II: Discussion	Is the analysis clearly described? Is it clear how the analytical technique has resulted in interpreted results? Are the analysis data presented clearly?  Are clear conclusions drawn from the analysis? Are the conclusions justified by the results of the analysis? Are they placed in context where appropriate?		Is this section easy to follow? This is in terms of the logical procession from application of the analytical method, through obtaining analysis results to a final conclusion which presents the interpreted findings to the reader.	<ul> <li>clearly?</li> <li>Do sentences clearly state the factual nature of the subject matter?</li> <li>Do sentences only use complex clause structure where absolutely necessary?</li> <li>Flow of paragraphs</li> <li>Are paragraphs correctly structured with beginning and end statements?</li> <li>Does each paragraph deal with a single concept?</li> </ul>



## A10 Writing 1: Results & Discussion

This form should be used to record the marks for the A10 lab assignment. This form should be completed by the student and countersigned by the tutor following the self-assessment. Please give a mark out of 5 against each criterion and a short sentence or two giving the justification for that mark. This will be used to inform the self-reflection component of the next writing assignment, so should include areas for improvement and development.

Breakdown		Mark	Justification and areas for improvement
I: Results	A		
	В		
	С		
	D		
II: Discussion	A		
	В		
	С		
	D		
Total			
Student Name:			Signature:
Tutor Name:			Signature:
Date:			