Tasks for Question 3: 10 marks

Submission: You must include the `.tex` and `.pdf` documents in your `tar.gz` file for submission.

You are a tutor in CSC3333 Software Engineering 3. Your task is to prepare a document in LaTeX introducing yourself and mentioning some of the things you are going to be teaching in the coming semester.

Your tasks for this assignment:

1. Create a `.tex` document called `userid_q3tex` where `userid` is your student ID. You must compile this with `pdflatex`. It may compile with *warnings* but the compile should not stop with *errors*. (1 marks)

2. Have a title area which has your name, the course name and ID and semester. You do not necessarily need to use the `\maketitle` command for this task; simply have the text laid out nicely. (2 marks)

3. Place a small USQ logo (provided) after the introduction and before the first section. This logo should be centred and have no caption or label. (2 marks)

Figure 1: USQ Logo - usqlogo.png

4. Create a **section** containing a small biography of yourself, including your education, research interests and other teaching for the coming semester. (Note: *This information can be fictional; please do not reveal real personal information if you do not wish to!*) (1 mark)

5. Create a **section** containing some information about the course this semester. There should then be two **subsections**:

   - One subsection contains some maths. It must contain the text and properly formatted maths as shown in Section 1. You must also include another numbered equation of your choice and some further text, again of your choice. (2 marks)
   - The other subsection contains a table. It must contain the text and table formatted as shown in Section 2. (2 marks)

Notes:

- You should use the `amssymb` and `amsmath` packages; the symbols used in the maths provided are in those packages.
- The exact layout and things like section headings are up to you. You may use various LaTeX packages but it would be preferred that you use packages which are installed on the USQ Lab machines or which are installed using the commands provided for installing TeXLive in the Pracs. If you are using packages which you think may be unusual place a comment in your TeX document.
- For the table shown below, you do not need to use the `multirow` package. Everything can be done using the standard `tabular` envirnment. You just need to find the appropriate commands. Use online documentation for LaTeX to discover the commands you need.
- Your table, equation and/or image numbers do not need to match those shown in the required text below, but they must be consistent.

1 Text for Subsection with Maths

This semester, we will be studying dilemmas. One dilemma is the constructive dilemma.

The constructive dilemma rule can be stated as shown in Equation 1:

$$\frac{(P \rightarrow Q), (R \rightarrow S), P \vee R}{\therefore Q \wedge S} \tag{1}$$

In other words, if P implies Q and R implies S and either P or R is true, then either Q or S has to be true.

2 Text for Subsection with Table

We will also be studying some tools used in software engineering. Some of them are listed in Table 1

`END OF QUESTION 3`

Category	Tool	
	Command	Description
Editor	`emacs`	Emacs extensible text editor
	`vi`	Visual editor
Scripting	`bash`	GNU Bourne-Again SHell
	`perl`	Practical Extract and Report Language
Document Management	`git`	Distributed Revison Control
	LaTeX	Document Typesetting Package
	`make`	Managing Project Utility

Table 1: Some Linux Utilities