SIT102 Introduction to Programming

Credit Task 4.4: Concept Visualisation

Overview

To meet the credit, and higher standard, you need to be able to demonstrate that you have developed a good understanding of the concepts associated with the unit.

For this task, you will develop some forms of visualisation that aims to communicate the core concepts you have learnt to others.

> **Note:**
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> To be eligible for a Credit grade, you need these concept visualisations to clearly communicate the concepts associated with the unit. You want them to be of a standard where we would be happy to show them to others as good visualisations of the concepts. This doesn't mean they need to be large and complex, rather quite the opposite. Aim for your visualisations to be clear and concise.
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> You will get feedback on the quality of your communication via the Quality Points associated with this task when it is assessed. Get 4 or 5 stars and we think you have done a great job, 3 stars is average, 1 or 2 stars means its acceptable but not great.

Submission Details

Submit the following files to OnTrack.

- An image of your visualisation. Have its orientation as portrait, even if it is a landscape image. OnTrack will convert it to fit on an A4 page
- An explanation of your visualisation (PDF)

Spend some time reflecting on what you have learnt, focus on the concepts and ideas, how they work, and how they are related. You want to demonstrate that you have really understood these ideas.

Your Task

Design a visualisation to communicate your understanding of the core concepts listed below.

For example, you could design a poster to help others learn the concepts, or you could create a concept map, mind map, picture, comic, or any other visual form.

Concepts for this visualisation include:

- Sequence
- Selection (`if` , `case`)
- Repetition (`while` , `do...while`)

In your explanation PDF, write a paragraph or two on what you are trying to communicate. This is for the teaching team to read, so you can assume that the person reading it has a good understanding of the concepts. So, the text should just relate to how *you* are *communicating* these concepts in your visualisation.

We look forward to seeing what you create.

It would be great if you could share this with others on the discussion board.

Remember to backup your task, and submit your work to OnTrack for feedback.

Task Discussion

Discuss the following with your tutor to demonstrate your understanding of the concepts covered.

- Explain your visualisation and how you are trying to communicate the core ideas.
- How do all of these ideas come together when larger software projects are built? - Elaborate how you design the flow control from your visualising concepts.