

# Lab 006: Code Generation

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**Dr. Matthew Pike**

13th November 2018

Please submit a PDF document containing your answers to the questions below via the associated Moodle assignment by 4PM today (day of lab). This work is not assessed, but does contribute towards your attendance mark for this lab (you must also sign the register).

## Introduction

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In today's laboratory you are going to complete the exercises highlighted in the lecture slides entitled: *Code Generation I* & *II*.

## Tasks

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1. **Code Generation I, Slide 15/29** - Specify the TAM code necessary for completing this operation. Don't forget to include **HALT** instruction at the end of your file.
2. **Code Generation II, Slides 2-5/46** - Generate the TAM code for these examples using HMTC. Compare the input source to the output. Provide a list of the aligned the generated 'fresh labels' with the input code. e.g. label #1 - Lines 5 - 8
3. **Code Generation II, Slides 10/46** - Complete the code templates for the exercise.
4. **Code Generation II, Slides 26/46** - Complete the code templates for the exercise.
5. **Read over CW2 task description.**