**Lab 1 Kristian Myzeqari 261 037 094**

The goal of the lab:

The main goal of Lab 1 was to familiarize us with using different ARM instructions and conventions. The main topics covered were compare instructions, branch instructions, shift and rotate instructions, load instructions and functions with subroutine calls. The stack's functionality was also explored using callee-save conventions during subroutine calls. The five increasingly complex tasks assigned for this lab varied from simple arithmetic routines to an image filtering routine, showing us the versatility of assembly programming language.

Task 1:

For task 1, we were assigned to write an assembly program that performs the division of two integer numbers. The result of the division, along with the remainder, must be stored in one 32-bit word. The rightmost half of the word stores the remainder of the division, and the leftmost half stores the quotient.