ARM Program Report

A screenshot of a cell phone

Description automatically generated

The tutorial register’s information, once the program completes it is storing 8 into register 1.

A screenshot of a cell phone

Description automatically generated

The above image is the code that we had to compute for our first ARM Assembly program. This program wants us to compute (A + B) – (C \* D) and store the final result into A. I start off by storing the value 10 into register 1, then the value 11 into register 2, then value 7 into register 3 and finally value 2 into register 4. To compute the equation, we first have to do the parenthesis, so we initially add register 2 to register 1 and store the result in register 1. Next, I multiplied register 3 by register 4. Finally, I subtracted register 3 from register 1 and storing the result into register 1. So, the final value stored in register 1 should be 7.

A screenshot of a computer

Description automatically generated

The above picture shows the values stored in each of the register, and as stated above the result of the equation (A + B) – (C \* D), which is 7 is stored into register 1, while the values in the other register are unchanged except register 3 which has the value of previous register 3 multiplied by register 4.