

**Task 1: Write an ARMv7 assembly program to evaluate the following arithmetic expression using only registers and immediate values (i.e., without using any variables or memory):**

$$((A+B)) \times (C-D)) + (E \times F)$$

**Where:**

A=7, B=3, C=5, D=2, E=4, F=6

**You must:**

- Move each value into different registers
- Use arithmetic commands to evaluate the expression
- Store the final result in register R7

**Task 2: Define four variables A,B, C and D in the data segment, with A=4, B=3, C=2 and D = 5.**

**Once defined your program must:**

- Load each variable's value from memory into different registers.
- Compute the value of following expression =  $((A+B) * C) - D$
- Store the result in a different register