## Exercise 1: Compute R2 = (10 + 15) - 5

```
.text
_start:

MOV R0, #10 @ Load 10 into R0
MOV R1, #15 @ Load 15 into R1
ADD R2, R0, R1 @ R2 = R0 + R1 = 25

MOV R3, #5 @ Load 5 into R3
SUB R2, R2, R3 @ R2 = 25 - 5 = 20

exit:
B exit
```

## Exercise 2: Store 100 in memory and load it back

```
.data
myVar: .word 100 @ Define variable in memory

.text
_start:
   LDR R0, =myVar @ R0 = address of myVar
   LDR R1, [R0] @ R1 = value at myVar (100)

MOV R2, #50
STR R2, [R0] @ Store 50 into myVar

exit:
   B exit
```

## Exercise 3: Calculate R3 = 6 \* 7

```
.global _start

.text
_start:
    MOV R0, #6
    MOV R1, #7
    MUL R3, R0, R1 @ R3 = 6 * 7 = 42

exit:
    B exit
```

## Exercise 4: Result = (A + B) \* C - D, with A=4, B=3, C=2, D=5