

TICT3113(P) – Computer Architecture & Organization

Lab sheet 02

Title:

Introduction to Keil IDE

Aims:

- To understand how Keil IDE works
- Create Sample assembly Language project

Tasks:

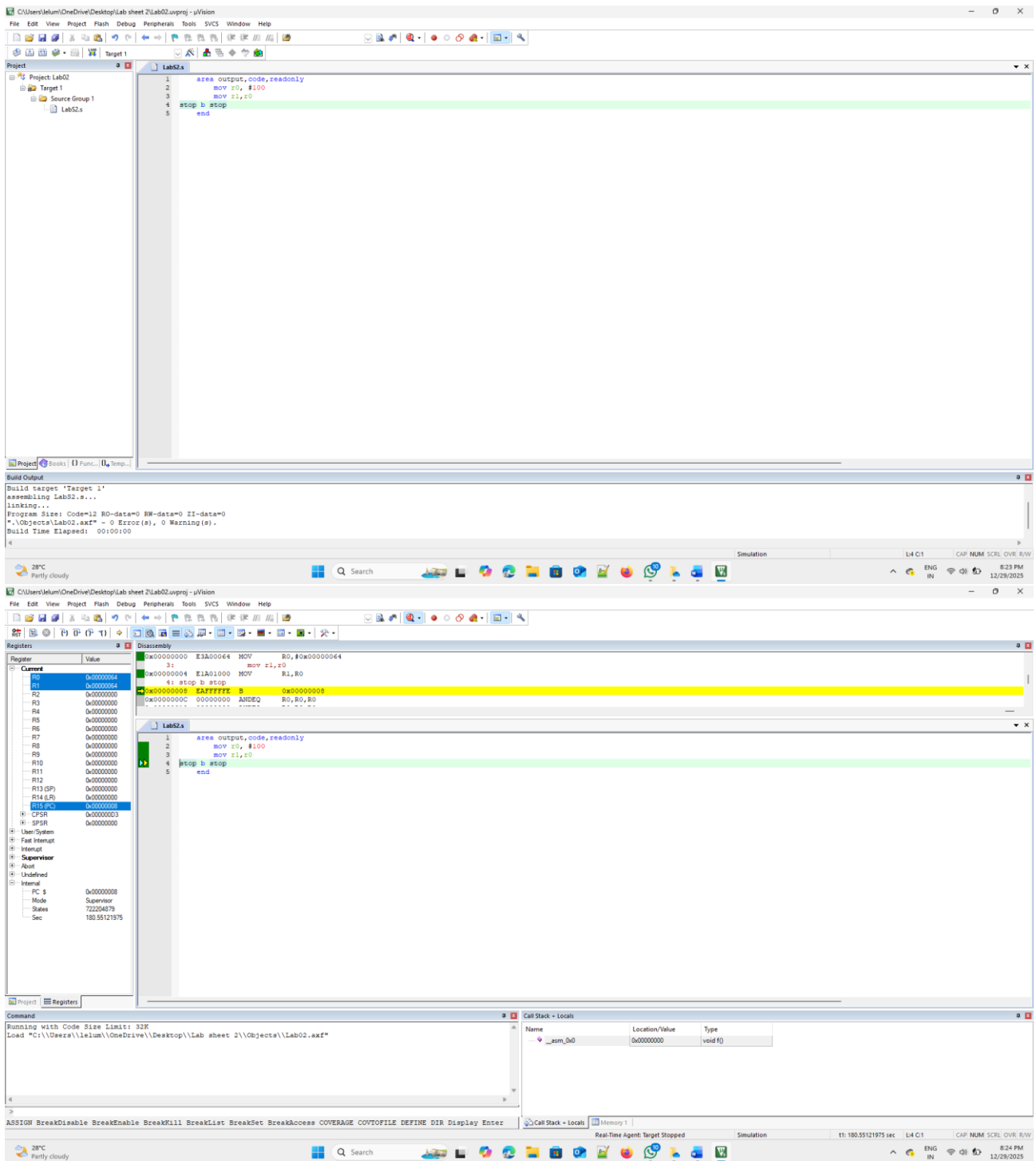
- Experience with Keil IDE
- Run the project using Keil IDE
- Move values between registers
- Simple Addition

Activities:

Copying a Value Between Registers Using Assembly Language

MOV R0, #100

MOV R1, R0



## Discussion:

This code demonstrates how to transfer a value between registers.

The value 100 is first entered into register R0 using `MOV R0, #100`.

#100 is an immediate value in this case.

The value from R0 is then copied into R1 via MOV R1, R0.

Both registers now hold the same value.

Final outcome

R0 = 100.

R1 = 100.

In assembly language, this technique is used to transfer or copy data between registers.

Reference:

Keil Software