Practical 02

Assembly Language

THIS IS A PROCTORED PRACTICAL

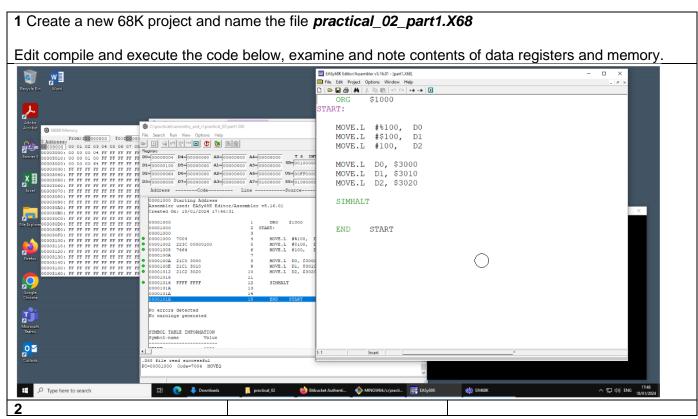
YOU MUST SHARE YOUR SCREEN SO YOUR PARTICIPATION IN THIS PRACTICAL CAN FULLY INVIGILATED

- 1. Create a Github repository "Assembly_and_C"
- 2. Create a sub directory PRACTICAL_##
- Add Github link to CA Spreadsheet
 e.g https://STUDENTID.github.com/Assembly_and_c/PRACTICAL_##
- 4. Invite Lab Supervisors including **MuddyGames** as a collaborators
- 5. Go to designated group to complete practical
- 6. Upload completed Practical files to Github repository

NOTE: Use of EASy68K editor and emulator allowed, use of internet allowed, use of slide deck(s) allowed. Installer located here http://www.easy68k.com/

Create a unique file e.g. practical_##_part#.X68 for each practical section below.

Objective Understand and utilise Basic Memory concepts, BINARY, HEX and Literals:



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	Create a new 68K project and name the file practical_02_part2.X68 Edit compile and execute the code across and observe contents of memory while debugging. Review questions, what do the numbers stored in memory mean and why?	MOVE.L #%100, D0 MOVE.L #\$100, D1 MOVE.L #100, D2 MOVE.L D0, \$3000 MOVE.L D1, \$3010 MOVE.L D2, \$3020 MOVE.W #100, \$3020 MOVE.W #\$100, \$3010 MOVE.W #%100, \$3000	
3	Create a new 68K project and name the file practical_02_part3.X68 Edit compile and execute the code across and observe contents of memory while debugging. Review questions, what do the numbers stored in memory mean and why?	MOVE.L #%100, D0 MOVE.L #\$100, D1 MOVE.L #100, D2 MOVE.L D0, \$3000 MOVE.L D1, \$3010 MOVE.L D2, \$3020 MOVE.W #100, \$3020 MOVE.W #\$100, \$3010 MOVE.W #\$100, \$3000 MOVE.B #\$64, \$3010 MOVE.B #\$64, \$3010 MOVE.B #\$10001111, \$3000	
4	Create a new 68K project and name the file practical_02_part4.X68 Edit compile and execute the code across and observe contents of memory while debugging (based on the Specification) Review questions, what do the numbers stored in memory mean and why? Examine what are the values	4 Specification: Complete the following operations MOVE.L MOVE.B MOVE.W Moving data to memory Use your own examples For Literals, Hex and Binary Move to Data to Data Registers	

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	that can be stored for each bit width of data?	and to Memory . Move data from Memory to Data Registers .	
		Your solution should include at least 18 examples for the above.	
5	Complete Practical Quiz which will be provided by Lab Supervisor		

Demonstrate completed assembly files at the end of the LAB and ensure it has been checked

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Date	20/1/2025	Checked	