

Practical 06

Assembly Language

THIS IS A PROCTORED PRACTICAL

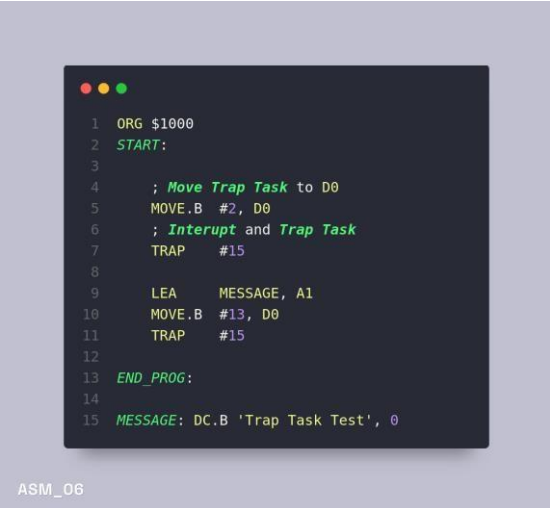
YOU MUST SHARE YOUR SCREEN SO YOUR PARTICIPATION IN THIS PRACTICAL CAN FULLY INVIGILATED

1. Create a Github repository "Assembly_and_C"
2. Create a sub directory PRACTICAL_##
3. 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/>

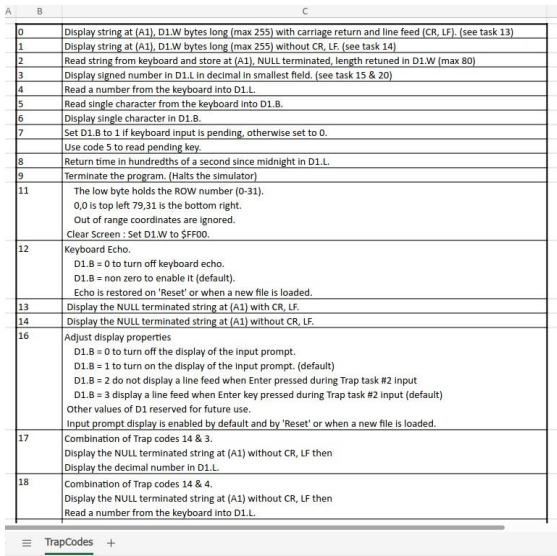
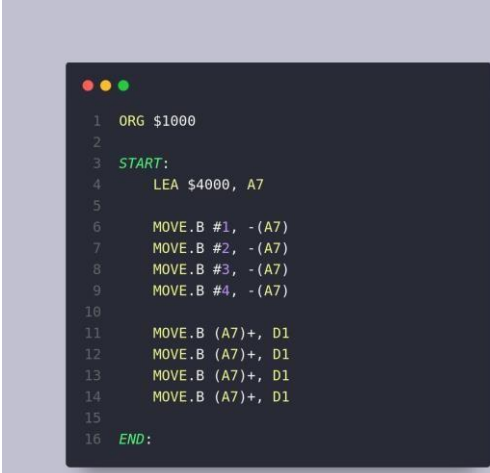
Create a unique file **e.g. practical_##_part#.X68** for each practical section below.

Objective Understand and utilise Conditional Branches and Control Structures:

1	<p>Create a new 68K project and name the file practical_06_part1.X68</p> <p>Edit compile and execute the code across and observe while debugging and contents of Data and Address Registers.</p>	 <p>Source Code Image (click here)</p>
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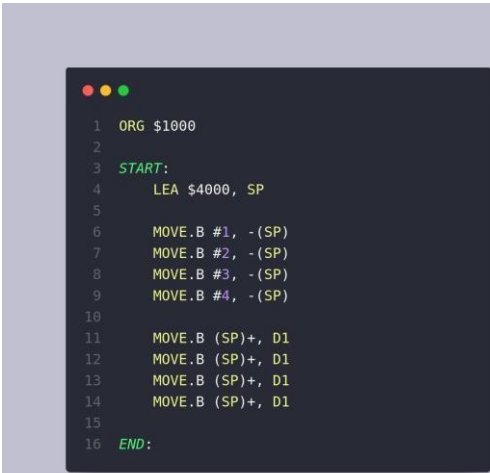
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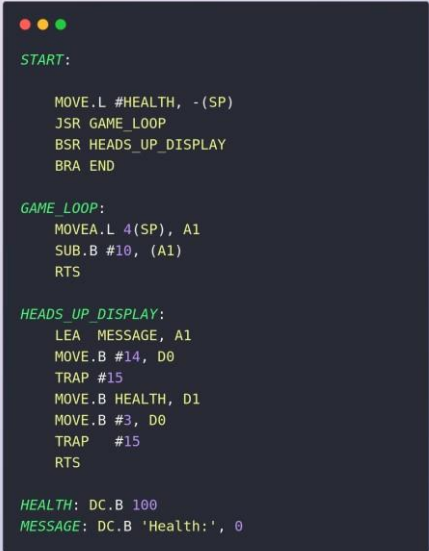
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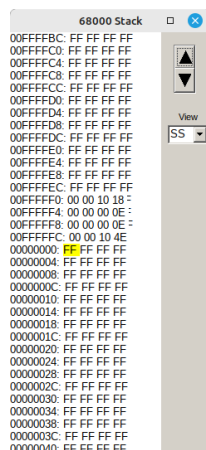
<p>2</p>	<p>Create a new 68K project and name the file <i>practical_06_part2.X68</i></p> <p>Complete code for Trap Tasks as listed here.</p>	 <p style="text-align: center;">Trap Codes (click here)</p>
<p>3</p>	<p>Create a new 68K project and name the file <i>practical_06_part3.X68</i></p> <p>Edit compile and execute the code across and observe while debugging and contents of memory, data registers and address registers.</p> <p>Review questions, what is the purpose of Address Register A7?</p>	 <p style="text-align: center;">Source Code Image (click here)</p>

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4	<p>Create a new 68K project and name the file <i>practical_06_part4.X68</i></p> <p>Edit compile and execute the code across and observe while debugging and contents of memory, data registers and address registers.</p> <p>Review questions, what is the purpose of Address Register SP (Stack Pointer)?</p>	 <p style="text-align: center;">ASM_06</p> <p style="text-align: center;">Source Code Image (click here)</p>
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5	<p>Create a new 68K project and designate the file as <i>practical_06_part5.X68</i>.</p> <p>Review questions parameters to subroutines can be passed through the stack what other functions can be achieved through the stack, what observations have you made when opening VIEW STACK ?</p>	 <p style="text-align: center;">ASM06</p> <p style="text-align: center;">Source Code Image (click here)</p>
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6	<p>Create a new 68K project and designate the file as <i>practical_06_part6.X68</i>.</p> <p>Review questions moving around stack can be achieved by what means other than push and pop, what problems could this cause?</p>	 <p style="text-align: center;">Source Code Image (click here)</p>
7	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	10/3/2025	Checked	