Practical 06

Assembly Language

THIS IS A PROCTORED PRACTICAL

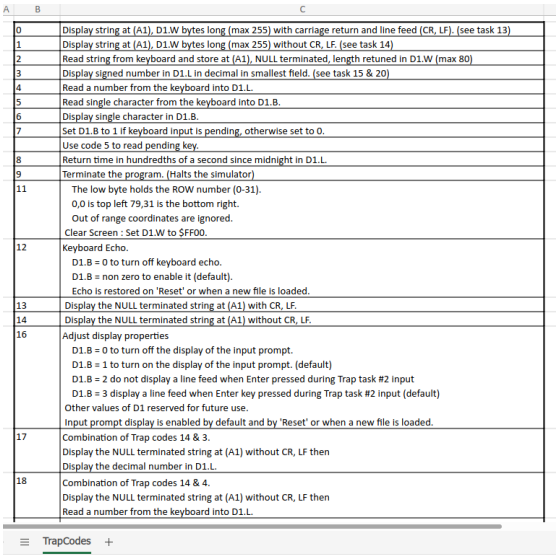
YOU MUST SHARE YOUR SCREEN SO YOUR PARTICIPATION IN THIS PRACTICAL CAN FULLY INVIGILATED

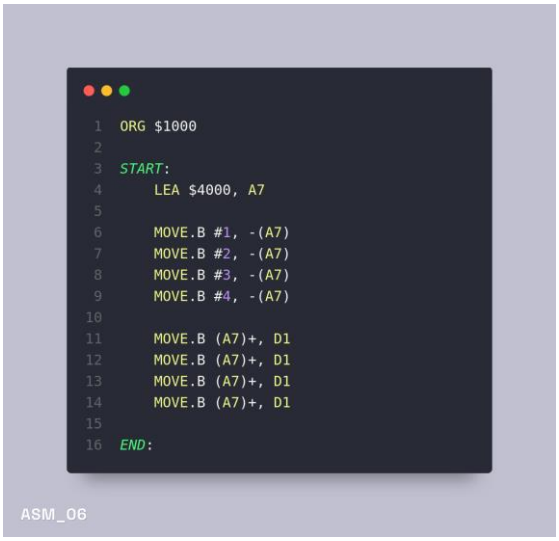
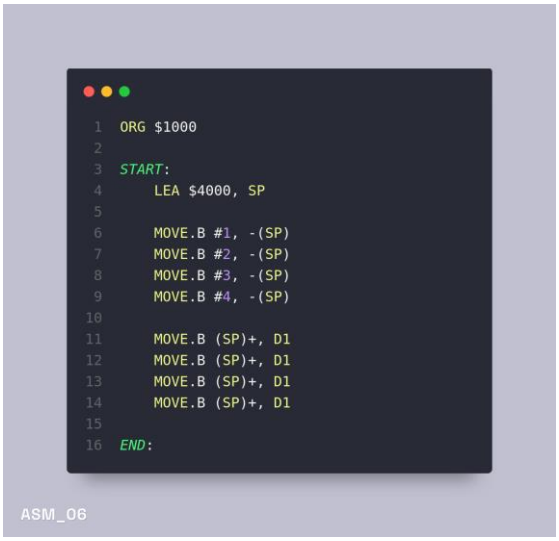
1. Create a Github repository "Assembly_and_C"
2. Create a sub directory PRACTICAL_##
3. Add Github link to CA Spreadsheet
   e.g https://STUDENTID.github.com/Assembly_and_c/PRACTICAL_##
4. Invite Lab Supervisors including **MuddyGames** as a collaborators
5. Go to designated group to complete practical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

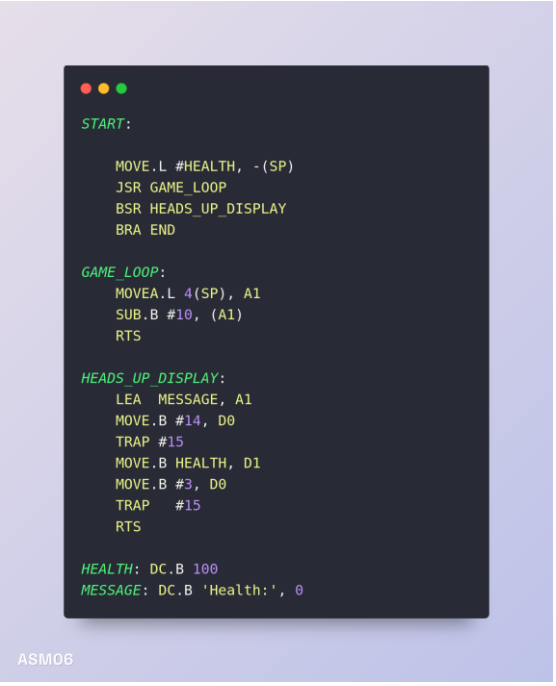
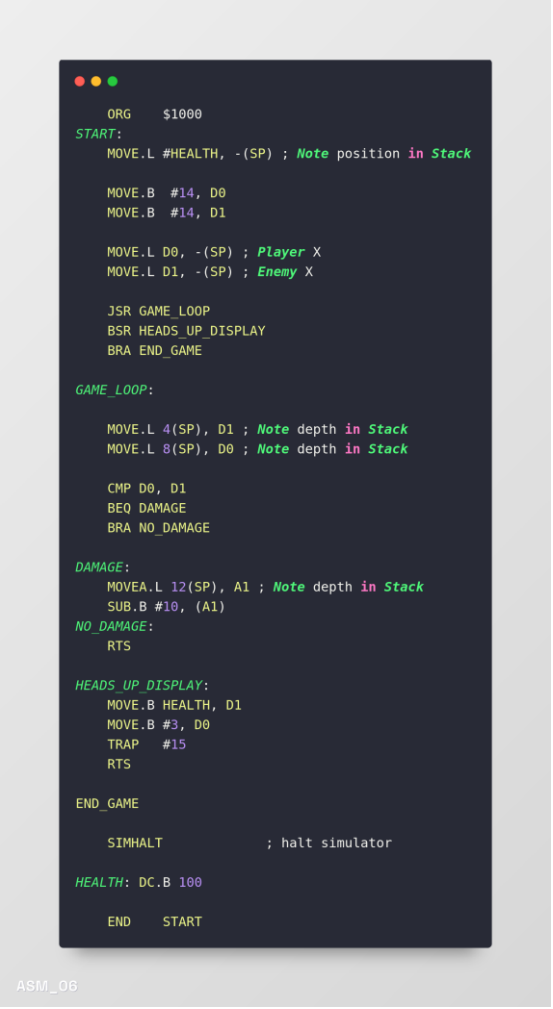
NOTE: Use of EASy68K editor and emulator allowed, use of internet allowed, use of slide deck(s) allowed. Installer located here http://www.easy68k.com/

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

Objective Understand and utilise Conditional Branches and Control Structures**:**

1	Create a new 68K project and name the file ***practical_06_part1.X68*** Edit compile and execute the code across and observe while debugging and contents of Data and Address Registers.	 **Source Code Image (click here)**
2	Create a new 68K project and name the file ***practical_06_part2.X68*** Complete code for Trap Tasks as listed here.	 **Trap Codes (click here)**

3	Create a new 68K project and name the file ***practical_06_part3.X68*** Edit compile and execute the code across and observe while debugging and contents of memory, data registers and address registers. Review questions, what is the purpose of Address Register A7?	 **Source Code Image (click here)**
4	Create a new 68K project and name the file ***practical_06_part4.X68*** Edit compile and execute the code across and observe while debugging and contents of memory, data registers and address registers. Review questions, what is the purpose of Address Register SP (Stack Pointer)?	 **Source Code Image (click here)**
5	Create a new 68K project and designate the file as	

	practical_06_part5.X68. 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 ?	 ASM06 **Source Code Image (click here)**
6	Create a new 68K project and designate the file as ***practical_06_part6.X68***. Review questions moving around stack can be achieved by what means other than push and pop, what problems could this cause?	 ASM_06 **Source Code Image (click here)**
7	Complete Practical Quiz which will be provided by Lab Supervisor	

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

Student Name		**Student Number**	
Date		**Checked**	