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\_##](https://studentid.github.com/Assembly_and_c/PRACTICAL_)

1. Invite Lab Supervisors including **MuddyGames** as a collaborators
2. Go to designated group to complete practical
3. 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.

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| **3** | Create a new 68K project and name the file |  |

**Objective** Understand and utilise Address Registers**:**

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| **1** | Create a new 68K project and name the file ***practical\_03\_part1.X68***    Edit compile and execute the code across and observe while debugging and contents of memory.    Examine and note contents of address registers and memory.    Review questions, what do the address register mean and what is stored in memory and why? |  |
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| **2** | Create a new 68K project and name the file ***practical\_03\_part2.X68***    Edit compile and execute the code across and observe while debugging and contents of memory.    Examine and note contents of address registers and memory.    Review questions, what do the address register mean and what is stored in memory and why? |  |
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|  | ***practical\_03\_part3.X68***    Edit compile and execute the code across and observe while debugging and contents of memory.    Examine and note contents of address registers and memory.    Review questions, what does the Health declaration mean and what is stored in memory and why? |  |
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| **4** | Create a new 68K project and designate the file as ***practical\_03\_part4.X68***.    Perform tasks such as editing, compiling, and executing the code according to the **Specification**. During debugging, closely monitor the contents of the memory.    Inspect the stored values in memory and adjust values and their locations within the memory. | **4 Specification**: Complete the following data to memory operations using Address Registers.    MOVE.L  MOVE.B  MOVE.W    Declaring initial data such as Player Health at 100% or $64 (Hex  equivalent)    Use your own examples, such as typical game data;   * Player Points * Player Health * Player X and Y Position * Boss Health * Boss X and Y Position     Your solution should include at least **12 examples** for the above. |
| **5** | Create a new 68K project and designate the file as ***practical\_03\_part5.X68***. This is an example of an **Array** and ***traversing an Array***. | |
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| **6** | 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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| **Student Name** | **Brandon Jaroszczak** | **Student Number** | **C00296052** |
| **Date** | **27/1/2025** | **Checked** |  |