Practical 08

C Programming 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 Visual Studio Code or other C code editor allowed, use of internet allowed, use of slide deck(s) allowed. Installer located here https://code.visualstudio.com/ or non-telemetry version https://vscodium.com/

Create a unique folder **e.g. practical_##/practical_##_part#** for each practical section below.

Objective Understand and utilise Conditional Branches and Control Structures:

```
1
                       Create a C
                      programming project
                      folder and name the
                                             #include "stdio.h" // standard IO header file
                      folder
                       ./practical_08/
                                             // Mainline
                      Within the folder
                                             int main()
                       create a subfolder
                       practical_08_part1
                                             printf("Hello Assembly and C\n"); // Call to
                                             printf function
                      Within the subfolder
                                             return 0:
                      create a file
                       main.c
                                                          Source Code
                      Edit compile and
                       execute the code
                      across and observe
                      while debugging.
                       Compile using the
                       command below
         gcc -S ./src/practical 08/practical 08 part1/main.c -I.
2
                       Create a C
                      programming project
                                             #include "stdio.h" // standard IO header file
                      folder and name the
                      folder
                                             void main()
                       ./practical 08/
                      Within the folder
                                             int a = 10;
                      create a subfolder
                                             int b = 20:
                      practical 08 part1
                                             float c = 20.0122;
                                             char my_char = 'a';
```

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| Within the sul create a file main.c Create a Make the project are the file Make no extension Details for create for pare located here. | // Call to printf function a is substituted for %d printf("Value of a is %d\n", a); // Call to printf function a is substituted for %d printf("Value of b is %d\n", b); printf("Value of b is %d\n", b); |
|--|---|
| Complete code examples less to 12 and 14 Complete Pra | de |

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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 | |