Practical 08

C Programming Language

THIS IS A PROCTORED PRACTICAL

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

- 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://code.visualstudio.com/ or non-tel

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

Objective Understand and utilise Conditional Branches and Control Structures:

```
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
           ddygames@muddygames-pc:~/Projects/introduction_to_c$ gcc -S ./src/practical_08/practical_08_part1/main.c -I.
      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 subfolder create a file <i>main.c</i> Create a Makefile for the project and name the file <i>Makefile</i> (<i>note no extension</i>) Details for creating a Makefile for projects are located here.	<pre>char *my_char_ptr = "Hello"; // 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); // Call to printf function c is substituted for %f precision is 4 characters printf("Value of c is %.4f\n", c); // Call to printf function my_char is substituted for %c printf("Value of my_char is %c\n", my_char_ptr is substituted for %c printf("Value in memory for my_char_ptr is %s\n", my_char_ptr); // Call to printf function my_char_ptr is substituted for %c printf("Value in memory for first char of my_char_ptr is %c\n", *my_char_ptr); } Source Code</pre>	
3	Complete code examples lessons 01 to 12 and 14	introduction_to_c / src / introduction Name lesson_01 lesson_02 lesson_03 lesson_04 lesson_05 lesson_06 lesson_07 lesson_07 lesson_08 lesson_09 lesson_10 lesson_10 lesson_11 lesson_12 lesson_13 lesson_14 Source Code	
4	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	