Worksheet 2 – minimalOS

10 Marks Available

Please complete the following table with proofs (screenshots must show a form of identification to you or your project) and a short description of how you’ve accomplished the task.

The proofs MUST BE clear and readable without forcing a marker to zoom in to verify them. If you do not have space for a screenshot in a cell of the table simply reference it (ex: “see figure X”) and put it below the table.

Make sure to push your code to your PRIVATE repository at <https://gitlab.uwe.ac.uk/> and put your tutor and myself (h-attak) as “Reporter” of your project.

Once completed, this worksheet must be submitted on its corresponding BlackBoard submission point.

Please also know that your tutor may ask you to demonstrate any or all the tasks required for this worksheet.

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| **Operating Systems**  **Worksheet 2** | **Student ID:21039366**  **Name: Sandra sahnoune**  **GITLAB REPOSITORY:** <https://gitlab.uwe.ac.uk/s2-sahnoune/worksheet2-minimal-os.git> | |
|  | **Proofs and notes** | **Date** |
| **Build and installed a local version of Binutils and GCC**  **(2 marks)** | **Install binutils:**   1. **Download binutils:**      1. **Configure binutils:**      1. **Make and install binutils:**      1. **Install, build and configure binutils:**       **Install, build and configurate GCC:** | **28/10/2021** |
| **Fork and build minimalOS**  **(2 marks)** | **Fork minimal Os:**    **Clone minimal os on my VM, then build minimal os using “make” .**    Generate the file “minimal.bin”: | **25/11/2021** |
| **Run minimalOS in QEMU**  **(1 mark)** | **Run minimal os in qemu using “make” then “qemu-system-i386 –curses –serial mon:stdio –kernel minimal.bin.”** | **25/11/2021** |
| **Modify minimalOS’ kernel to support the *newline* character**  **(2 mark)** | **Modify the file “kernel.c” in order to support newline character in MinimalOs.** | **25/11/2021** |
| **Modify minimalOS’ kernel to support line scrolling**  **(3 marks)** | **Modify kernel.c in minimalOs in order to support line scrolling:**    **Commit and push the changes into my repository** | **25/11/2021** |