

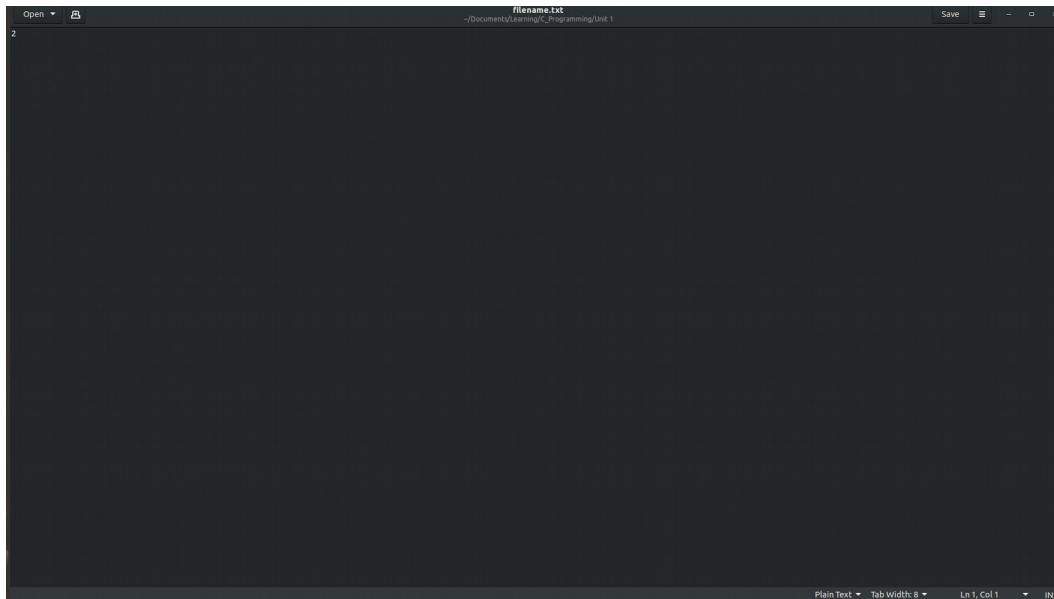


PES
UNIVERSITY

Week 1: File Redirection and gcc compiler options

2021

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	Date: 9-05-2021	Week Number: 1

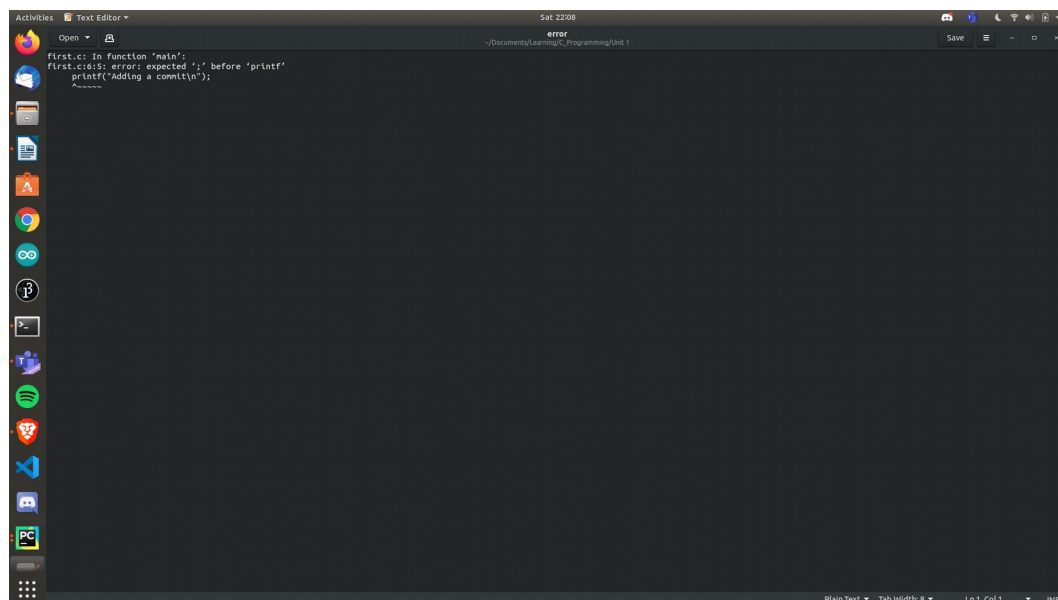
Task 1	Redirect Standard Output :Write to New File
	Description: It redirects all the standard output from the command into the given file.
	Commands: <pre>jacob@jacob-Vostro-3501:~/Documents/Learning/C_Programming/Unit 1\$./Test > filename.txt</pre>
	Output Screenshot: 
Task 2	Redirect Standard Output: Writes to the Same File
	Description: Here we redirect the standard output to the same file that we had created or had previously.

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	Commands: <pre>jacob@jacob-Vostro-3501:~/Documents/Classes/Sem2/C_LAB/Code\$ dir >> new.txt</pre>
	Output Screenshot:
Task 3	Redirect Standard Error To a File
	Description: <p>Here we redirect the standard error, if any, to a file.</p>
	Commands: <pre>jacob@jacob-Vostro-3501:~/Documents/Learning/C_Programming/Unit 1\$ gcc first.c > out 2>error</pre>

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Output Screenshot:



Task 4 Redirect All Output: Writes to Same File

Description:

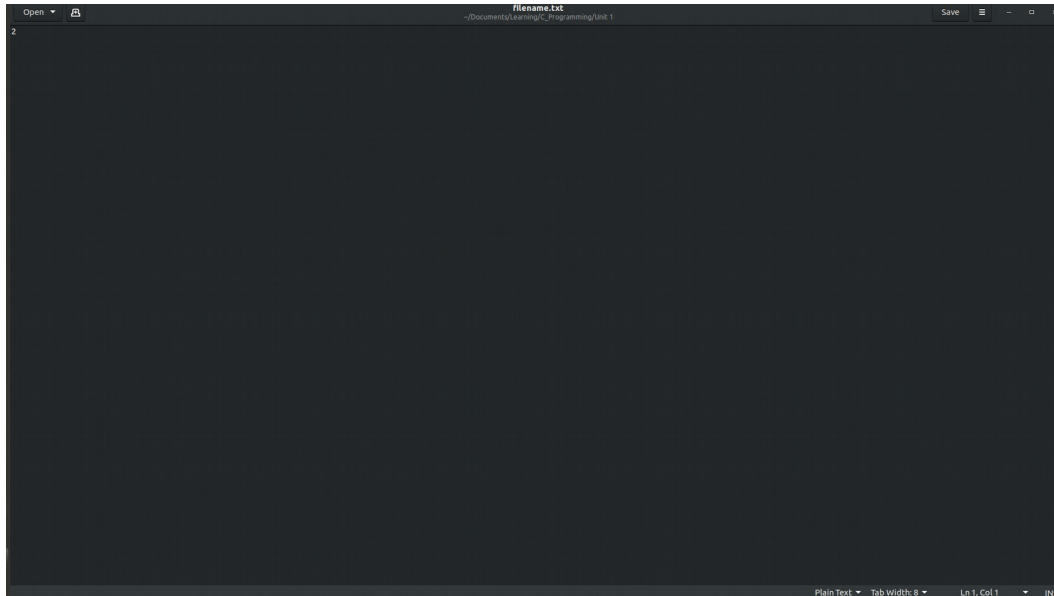

We redirect all the output of the given command to a new file.

Commands:

```
jacob@jacob-Vostro-3501:~/Documents/Classes/Sem2/C_LAB/Code$ dir >> new.txt
```

Output Screenshot:

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Task 5	Input Redirection-Taking input from file
	Description: Here we take input from a file for a command.
	Commands: <pre>jacob@jacob-Vostro-3501:~/Documents/Learning/C_Programming/Unit 1\$ sort < fruit.txt</pre>
	Output Screenshot: 
Task 6:	Options in gcc compiler
	Description: When you invoke GCC, it normally does preprocessing, compilation, assembly and linking. The "overall options" allow you to stop

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	<p>this process at an intermediate stage. For example, the -c option says not to run the linker. Then the output consists of object files output by the assembler.</p> <p>Other options are passed on to one or more stages of processing. Some options control the preprocessor and others the compiler itself. Yet other options control the assembler and linker; most of these are not documented here, since you rarely need to use any of them.</p>
	<p>Commands:</p> <pre>jacob@jacob-Vostro-3501:~/Documents/Learning/C_Programming/Unit 1\$ gcc --help</pre>
	<p>Output Screenshot:</p>

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```
Usage: gcc [options] file...
Options:
  -pass-exit-codes      Exit with highest error code from a phase.
  --help                Display this information.
  --target-help          Display target specific command line options.
  --help={common|optimizers|params|target|warnings|[^]{joined|separate|undocumented}}[,...].
                        Display specific types of command line options.
  (Use '-v --help' to display command line options of sub-processes).
  --version             Display compiler version information.
  -dumpspecs            Display all of the built in spec strings.
  -dumpversion          Display the version of the compiler.
  -dumpmachine          Display the compiler's target processor.
  -print-search-dirs    Display the directories in the compiler's search path.
  -print-libgcc-file-name Display the name of the compiler's companion library.
  -print-file-name=<lib> Display the full path to library <lib>.
  -print-prog-name=<prog> Display the full path to compiler component <prog>.
  -print-multiarch      Display the target's normalized GNU triplet, used as
                        a component in the library path.
  -print-multi-directory Display the root directory for versions of libgcc.
  -print-multi-lib      Display the mapping between command line options and
                        multiple library search directories.
  -print-multi-os-directory Display the relative path to OS libraries.
  -print-sysroot        Display the target libraries directory.
  -print-sysroot-headers-suffix Display the sysroot suffix used to find headers.
  -Wa,<options>         Pass comma-separated <options> on to the assembler.
  -Wp,<options>         Pass comma-separated <options> on to the preprocessor.
  -Wl,<options>         Pass comma-separated <options> on to the linker.
  -Xassembler <arg>    Pass <arg> on to the assembler.
  -Xpreprocessor <arg> Pass <arg> on to the preprocessor.
  -Xlinker <arg>       Pass <arg> on to the linker.
  -save-temps           Do not delete intermediate files.
  -save-temps=<arg>    Do not delete intermediate files.
  -no-canonical-prefixes Do not canonicalize paths when building relative
                        prefixes to other gcc components.
  -pipe                Use pipes rather than intermediate files.
  -time                Time the execution of each subprocess.
  -specs=<file>         Override built-in specs with the contents of <file>.
  -std=<standard>       Assume that the input sources are for <standard>.
  --sysroot=<directory> Use <directory> as the root directory for headers
                        and libraries.
  -B <directory>       Add <directory> to the compiler's search paths.
  -v                  Display the programs invoked by the compiler.
  -###                Like -v but options quoted and commands not executed.
  -E                  Preprocess only; do not compile, assemble or link.
  -S                  Compile only; do not assemble or link.
  -c                  Compile and assemble, but do not link.
  -o <file>            Place the output into <file>.
  -pie                 Create a position independent executable.
  -shared              Create a shared library.
  -x <language>        Specify the language of the following input files.
```