**GDB- The GNU Debugger**

<https://www.gnu.org/software/gdb/> \*\* More about GDB

<https://ftp.gnu.org/old-gnu/Manuals/gdb/html_chapter/gdb_toc.html> \*\* GDB Manual

<https://www.gnu.org/home.en.html> \*\* More about GNU

**How to compile your program to use GDB:**

*gcc -g sourcecode.c -o output\_name*

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| --- | --- | --- |
| **Command** | **Abbreviation** | **Result** |
| **gdb** *./program\_name* |  | Starts GDB with the specific program |
| **quit** | q | Quits GDB |
| **run** | r | Runs/Starts/Restarts the program |
| **break** *function\_name*  **break** *file\_name:line\_number* | b | Create breakpoints at the certain functions or lines |
| **disable** |  | Disables all the breakpoints |
| **next** | n | Executes the current line and goes to the next one in the current function |
| **step** | s | Executes the current line and goes to the next one. If there is a function call, it goes to the called function |
| **continue** | c | Executes everything until the next breakpoint |
| **list** | l | Shows the surrounding code |
| **print** *variable\_name* | p | Prints the value of the variable |
| **watch** *variable\_name* |  | Watch the variable for changes |
| **info locals** |  | Show the locals for the current scope. |
| **help** *command* |  | Show help file for the command |