

1. Download MARS MIPS simulator from the following site and save Mars4_5.jar file:

<https://dpetersanderson.github.io/>

MARS (MIPS Assembler and Runtime Simulator)
An IDE for MIPS Assembly Language Programming

MARS is a lightweight interactive development environment (IDE) for programming in MIPS assembly language, intended for educational-level use with Patterson and Hennessy's *Computer Organization and Design*.

100% FREE
NO SPYWARE
NO ADWARE
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Feb. 2013: "MARS has been tested in the Softpedia labs using several industry-leading security solutions and found to be completely clean of adware/spyware components. ... Softpedia guarantees that MARS 4.3 is 100% FREE, which means it does not contain any form of malware, including spyware, viruses, trojans and backdoors."

[Download MARS from Softpedia](#) (version on Softpedia may lag behind the version on this page).

Download MARS 4.5 software! (Aug. 2014)

Note: Is your MARS text unreadably small? Download and use a new release [Java 9](#), which contains a fix to automatically scale and size AWT and Swing components for High Dots Per Inch (HiDPI) displays on Windows and Linux. [Technical details](#).

Now for 4.0: new editor, featuring multiple files, context sensitive input and

Download MARS V4.5, Aug. 2014 (jar archive including Java source code)

Note: Is your MARS text unreadably small? Download and use a new release [Java 9](#), which contains a fix to automatically scale and size AWT and Swing components for High Dots Per Inch (HiDPI) displays on Windows and Linux. [Technical details](#).

To run the emulator, you can double click on the jar file OR run with
`% java -jar Mars4_5.jar` in command window

2. In Mars, write MIPS code to print the string "Hello, world! I'm <name>." on the screen, with your own name in place of "<name>" in the string.
3. The string can be pre-entered in the data segment, and MIPS code to print a string can be used in the text segment.
4. Save your file from Mars as your_last_name.asm, and submit the asm file on Canvas.