**Setup**

1. Install MARS - Instructions and download here: <http://courses.missouristate.edu/KenVollmar/mars/download.htm>
2. Copy the included .asm file to your MARS directory
3. Open the .asm file in MARS
4. Compile the program (click the wrench/screwdriver icon)
5. Click the first “play” button (Not the one with a 1 on the icon)

You’re done – enjoy the game!

**How to Play**

Cows and Bulls is a guessing game, where the objective is to figure out a secret four-letter word by making four-letter guesses. Each time you make a guess, you will be told how many “bulls” and how many “cows” you have. Every bull stands for one letter *in the correct place,* and every cow stands for a correct letter, but *not* in the correct place.

The guess input must follow these rules:

* It must have exactly four letters
* It must be all upper case
* There must be no repeating characters

If you want to stop the game, type in “2” (With no quotes)

If the input is incorrectly formatted, it will give you an error message telling you what you did wrong. When you guess correctly, it will tell you how long it took you to get the correct answer.