

MA5111 – Bash Scripting Exercises

1. Write a bash script that will ask for and read in a user's temperature. If their temperature is between 35 and 37 degrees C, your script should tell them that they are fine and can go to College. For a temperature greater than 37, they have a fever and should stay home. For a temperature less than 35, they are suffering from hypothermia and should warm up with a nice cup of tea!
2. Write a script that reads in a sentence from the user and outputs each word. After the last word is printed to the screen, your script should tell the user how many words were in the sentence.
3. Write a script that allows the user to enter a number, n , at the command prompt (assume that this will be a non-zero positive integer). Your script should then output the sum of the first n natural numbers (using a while loop).

Guessing game

The built in \$RANDOM function returns a random integer in the range: 0 - 32767. To generate a random number within a particular range, you can use the modulus operator e.g. $x=$((\$RANDOM \% 10 + 1))$.

Write a guessing game script which begins by generating a random number between 1 and 100. The user is then asked to input their guess at the number. While the user has not guessed the correct number, they will be asked to guess again, but with some helpful feedback e.g. "Wrong guess, try a higher number!". Your script should keep track of the number of guesses a user has made, so that when they guess the correct number, they will get a message that says: "Well done, you guessed correctly after x tries!" (where x is the number of guesses made).