# UNIX Quiz 3

Write the shortest possible command line to accomplish the following tasks. Any filenames mentioned are in your current directory, unless otherwise noted. You do NOT know what your current directory or what your userid is.

1. Display only the third field of each record in file **names** , and append any error messages to a file called **problems**. The fields are separated by a single tab character: Q by a single space

**cut -f3 names 2>> problems cut -d’ ‘ -f3 names 2>> problems**

1. Display the first 3 lines in file **alpha**, changing all alphabetic characters to lowercase:

**head -3 alpha | tr ‘[A-Z]’ ‘[a-z]’**

1. Sort file **accounts** numerically, and redirect standard output to a new file called **clients**:

**sort -n accounts > clients**

1. Display all the lines in file **customers** which contain the string "Smith":

**grep ‘Smith’ customers**

1. Set the permissions on directory **agenda** so that the owner has full permissions, the group has read and execute, and everyone else has write only (octal)**:**

**chmod 752 agenda**

1. Remove permissions to ensure that users not in your group are not able to write or execute program **check** (symbolic) :

**chmod o-wx check**

1. Set the default permissions for newly created directories so that the owner has full permissions, the group has read only, and others have write and execute:

**umask 034**

1. You need to use files in the directory **/programming/team2/project3** several times a day. Write the command that will allow you to use "cat p3/clients" from within your current directory to display the file **clients** from within that directory:

**ln -s /programming/team2/project3 p3**

1. Below are **some** of the records in a file called "employees*"*. Assume this file is in your current directory.  Using the records shown in "employees" below, choose the record(s) displayed by the following command line:

**tail -4 employees | head -1**

Farnon Bob Payroll Accountant 725.57 416-347-8478

**Barker Mark Accounting Bookkeeper 1427.45 416-347-9866**

Dorn Bruce Engineering Manager 832.29 905-683-2227

Boyce James Civil Engineer 1233.36 416-347-8906

Nguyen Bill Marketing Manager 954.16 416-347-8900

1. Below are **some** of the records in a file called "animals*"*. Assume this file is in your current directory.  Using the records shown in "animals" below, choose the record(s) displayed by the following command line:

**grep "Pa" animals | sort | tail -1**

3 **Russia Mammal Bear 2013 Male Papa**

Japan Fish Koi 2017 Female Swimmer

2 Paraguay Bird Swan 2003 Female Cutey

1 Papua Bird Tiger 1997 Male Stripe

Greece Reptile Snake 2005 Female Slimey

R > P , r > p sort: lowest -> highest