

## CISC 3140 Midterm Questions

1. Which command will allow you to see where all configurations are drawn from for a git repository with git version control?
  - a. `git config list --global`
  - b. `git config ls --global --show-origin`
  - c. `git config --local`
  - d. `git config --show-origin`
  - e. other: \_\_\_\_\_
2. Select the true statements:
  - a. You must use `gitadmin` to create new repositories.
  - b. You must use the `svnadmin` command to create new repositories.
  - c. The workflow to track new files in git is `git updated` then `git commit`.
  - d. The workflow to have local changes show up on Github with your local git repository is `git add` then `git push`.
  - e. The workflow to track new files in svn is `svn push`.
  - f. None of the above.
3. Select the true statements:
  - a. The patterns listed in the gitignore file are intended to remove tracked files from future commits.
  - b. The gitignore file is created by the command `git ignore`.
  - c. The gitignore file is created by the command `git add gitignore`.
  - d. gitignore files use the PCRE2 flavor of regular expression.
  - e. None of the above.
4. Select the true statements:
  - a. `sed` can be used to search for patterns in a file.
  - b. `grep` is typically used for editing an input stream.
  - c. When running a `sed` command on a list of input files, by default it will treat files as separate instead of one large file.
  - d. The flag for inverting matching in `sed` is the `-v` flag.
  - e. None of the above.
5. Select the true statements:
  - a. POSIX compliance is required for a computer manufacturer to sell computers.
  - b. POSIX is a standard for hardware specifications.
  - c. POSIX stands for Portable Operating System running Unix.
  - d. POSIX is part of the GNU collection of programs.
  - e. None of the above.
6. When tracking changes with subversion, under what circumstances would `svn add` be required to be used rather than `svn commit`?
7. You are a Java developer on a software team responsible for modifying a Calculator program tracking changes with git VCS. Based on the git status message shown below at the end of your shift, what commands should you execute to share all your source

code changes to the Calculator program (and no other program) with the rest of your team before you leave for the day?

On branch main

Your branch is up to date with 'origin/main'

Changes to be committed:

modified: src/Calculator.java

Changes not staged for commit:

modified: src/Calculator.java

modified: src/HelloWorld.java

Untracked files:

README.md

Icon.png

8. Explain the command shown below and describe the nature of expected output. The header (first line) of the film.csv file is as follows:

```
Year;Length;Title;Genre;Actor;Actress;Director;Awards;Image
```

```
awk -F ';' 'S7 ~ /^Hitchcock|^Spielberg/ && $1 > 60 {print $0}' film.csv
```

9. Remove only blank lines from a file named `sample.txt` using `sed` or `grep`.
10. You are a software consultant responsible for helping your clients parse CSV files to show lines that contain a substring and then either replace that substring or show only matched lines, depending on clients' preferences. Determine which of these two solutions will be easier to produce and maintain, and briefly explain your rationale.
- Writing a Java program:  
Write a sample Java program and show how you'd execute the program.
  - Using a shell utility program:  
Which of the utility programs would you use? Show an example.