**Assignment 0**

(Full Score: 80 points)

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| Your name: Bridget Knight | Score: |

1. (**10 points**) On what computer system (i.e., Windows machine, Linux, Mac) do you work on your CSC381 coursework (such as programming projects)? Provide one or two **screenshot**s as your answer (an example is given below. Note: the screenshot should contain the system information about CPU/Processor, Memory, OS,…, etc. You ***may hide/blot-out some sensitive*** information on the screenshot).

A screenshot of a computer program

Description automatically generated

A screenshot of a computer

Description automatically generated

1. (**30 points**) To review or learn about Computer Structures/Architecture: watch several videos given at <http://weblab.salemstate.edu/~byi/CSC381_Silberschatz/index.html> (how many videos you’d need to watch—depending on your background/experience in using/building your own computer). You then search online for more on the subjects of Computer Structures/Architecture. Provide **2 online** links, one being a ***video link*** and another one a regular website/homepage for the topic (that is, regular text information with or without video or audio). For **each of these 2 links**, provide the following as your solutions:

**Link 1:**

* 1. <https://www.youtube.com/watch?v=BL4DCEp7blY&ab_channel=LinusTechTips>
  2. In this video, Linus Tech Tips describes how to build a computer completely from scratch in significant detail. He outlines how to decide what parts the user will need based on their intentions for using the computer and proceeds to show exactly how to place each component into the build. At the end of the video, he shows what the user can expect when powering it on for the first time and how they may need to troubleshoot the machine. I chose this video because it is very in-depth and covers almost everything someone would need to know before building their first computer, and it is a helpful reference for adding onto a computer since he shows the implementation of each component.

**Link 2:**

1. The website link: <https://www.britannica.com/technology/computer/History-of-computing>
2. On this website, an in-depth history of computing is outlined. This website explains each part of the history clearly and organizes it in an easy-to-follow lineage. Additionally, in the last entry under “history of computing,” it connects visions held by early computer scientists in the 70s to today’s world of interconnectivity and advanced computing. I chose this website because it provides a holistic view of the history of computing and covers every major invention that led to where computing is today.
3. (**40 points**) List at least **8** **terminal/shell commands** (typing with keyboard rather than using mouse); for **each of them**, practice on your computer to learn how to use it (be careful, some commands may change/delete your documents and settings, so create temporary files and folders for the practice), and then **provide the following as your solutions**:
   1. briefly describe the command in one sentence;
   2. provide one screenshot for the command of your using it. (Some screenshot examples are given below.)

Using Ubuntu on Windows:

**ls** [dir]



This command lists the files and directories in the current working directory or in a supplied directory.

**git log**

A screen shot of a computer

Description automatically generated

This command shows the previous commits of the current branch of a Github repository or a supplied branch.

**curl** [URL]

A screen shot of a computer

Description automatically generated

This command establishes a connection with a URL and retrieves data from it. In this case, since no other arguments were supplied, some HTML from the page is returned.

**zip**

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Description automatically generated

zip turns a provided folder and the contents in it into a .zip file.

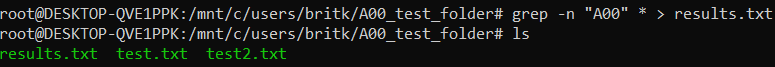
**rm**

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This command deletes a file or folder.

**grep**



This command searches for a string in a file or multiple files and has the capability to output the results to a separate file using the > operator.

**cat**

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Description automatically generated

cat prints the contents of a file.

Using Windows command prompt:

**cd ..**

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Description automatically generated

cd changes the current directory, and when supplied with .. , moves up one level in the directory tree.

(**NOTE:** when taking screenshots, focus on the “contents”—that is, the texts on the screenshots should be read clearly.)