CSc 3320: Systems Programming

Fall 2021

Midterm 1: Total points = 100

Submission instructions:

- 1. Create a Google doc for your submission.
- 2. Start your responses from page 2 of the document and copy these instructions on page 1.
- 3. Fill in your name, campus ID and panther # in the fields provided. If this information is missing TWO POINTS WILL BE DEDUCTED.
- 4. Keep this page 1 intact. If this *submissions instructions* page is missing in your submission TWO POINTS WILL BE DEDUCTED.
- 5. Start your responses to each QUESTION on a new page.
- 6. If you are being asked to write code copy the code into a separate txt file and submit that as well. The code should be executable. E.g. if asked for a C program then provide myfile.c so that we can execute that script. In your answer to the specific question, provide the steps on how to execute your file (like a ReadMe).
- 7. If you are being asked to test code or run specific commands or scripts, provide the evidence of your outputs through a screenshot and/or screen video-recordings and copy the same into the document.
- 8. Upon completion, download a .PDF version of the google doc document and submit the same along with all the supplementary files (videos, pictures, scripts etc).
- 9. Scripts/Code without proper comments, indentation and titles (must have the name of the program, and name & email of the programmer on top the script).

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Campus ID: sbrahmbhatt3

Panther #: 002483892

Questions 1-5 are 20pts each

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- 5. A) The shell is used to controlling the computer using the commands instead of the Graphical User interface (GUI). It takes the command from programs. Shell helps to interact with the system. It is a term of UNIX.
 - B) Yes, Snowball Server stops all the commands running in the system between the data source whereas shell in PC's won't stop. And to secure the Snowball Secure Shell is used (SSH) that is used for connections.
 - C) As C is a compiled language, not an interpreted language. So that it is interpreted by a compiler of the C language and machine code generates and executes the output. Therefore, interpreted language is completely different from the compiled language.
 - D) These two are Built-in commands. In which echo always ends with the status zero, whereas printf gives an exit of non-zero. The printf is slower compared to echo. Example: echo has a default newline character, but in print added manually.
 - E) **SSH-** It is a connection between two systems used to copy, manage, or move files. The acronym of SSH is Secure Shell.
 - **SCP** It is used to copy a file on a remote server to the computer. SCP is a tool used by the SSH network protocol.
 - **WGET** It is used to download files by using the pasted URL from the server. WGET is a network downloader that is non-interactive.