## File Permission & Ownership

- 1. What command do you use to view the permission of file "test.txt"?
- 2. Explain what the following file permission means
  - a. -rwxr-xr-x
  - b. -r-wrwxr--
  - c. -rwxr--r--
- 3. What does the chmod command do?
  - a. Changes the owner of a file
  - b. Changes the permissions of a file
  - c. Changes the name of a file
  - d. Changes the location of a file
- 4. What is the command to change ownership of a file Sample.txt to a user called Kevin?
- 5. What does the 'chmod 755 filename' command do to the file's permission?
- 6. The 'chmod 644 filename' command gives read and write permissions to the owner and read permissions to the group and others.
  - a. True
  - b. False
- 7. Symbolic permissions are represented by numeric values.
  - a. True
  - b. False
- 8. Use **chown** command to change the user and group of a File. Give example.
- 9. The command to remove write permissions for the group from a file named file.txt is?
- 10. What is the purpose of umask command?
- 11. Explain what the permissions drwxr-xr-- indicate about a directory.
- 12. If you want to ensure that a script file named **script.sh** is executable only by the owner, which command would you use? Write with both symbolic & octal mode.
- 13. How would you recursively change the permission of all files and directories inside a directory called "Permission" to 774?
- 14. How to make a file read-only for everyone using symbolic mode command?
- 15. Change the group of a file named Sample to sports.

## I/O redirect

- 1. What does the command command > file.txt do?
  - a. Appends the output of the command to file.txt
  - b. Overwrites the content of file.txt with the output of the command
  - c. Displays the content of file.txt
  - d. Copies file.txt to the command output
- 2. Which command will redirect standard error to a file named error.log?
  - a. command 2> error.log
  - b. command > error.log
  - c. command 2>> error.log
  - d. command &> error.log
- 3. What symbol is used to append output to a file?
  - a. >
  - b. >>
  - c. <
  - d. |

- 4. What does command < input.txt do?
  - a. Reads from input.txt and sends it to the command as standard input
  - b. Writes output from the command to input.txt
  - c. Appends input.txt to the command output
  - d. Displays the content of input.txt
- 5. You want to save the output of a command, but you also want to see the output on the terminal. What command would you use?
- 6. If you want to count the number of lines in file.txt but the command produces an error and you want to capture that error in a separate log file, how would you do that?
- 7. What does the command cat file.txt | grep "search\_term" do?
- 8. How can you redirect both standard output and standard error of a command to the same file? Provide an example.

## <u>Filters</u>

- 1. What does the grep command do?
  - a. Sorts lines of text
  - b. Searches for patterns in files
  - c. Counts the number of lines
  - d. Displays file content
- 2. Which option would you use with grep to perform a case-insensitive search?
- 3. What command would you use to sort the contents of a file named data.txt?
- 4. Which command displays only unique lines from a file?
- 5. What is the output of 'wc filename'? explain.
- 6. To find all lines containing "error" in a file named log.txt, you would use?
- 7. The command sort -r file.txt sorts the file \_\_\_\_\_\_.
- 8. Write a command to display only the first column in ls -l output.
- 9. You have a file named students.txt that contains names and grades. How would you extract just the names from each line, assuming names are the first column and are separated by commas?
- 10. You want to find all occurrences of the word "success" or "error" in a log file. What command would you use?