CS 513 - Software Systems (Prep Sem study material)

I.   You tube videos

Total duration: 3 hours. Total number of videos: 21

1. 11 minutes: Shell Scripting Tutorial for Beginners 1 - Introduction.
    https://youtu.be/cQepf9fY6cE
2. 10 minutes: Shell Scripting Tutorial for Beginners 2 - using Variables and Comments.
    https://youtu.be/vQv4W-JfrmQ
3. 11 minutes: Shell Scripting Tutorial for Beginners 3 - Read User Input.
    https://youtu.be/AcSkkNAsGCY
4. 8 minutes: Shell Scripting Tutorial for Beginners 4 - Pass Arguments to a Bash-Script.
    https://youtu.be/BjBBfmDRakg
5. 13 minutes: Shell Scripting Tutorial for Beginners 5 - If Statement (If then , If then else, If elif
    else). https://youtu.be/OO2Avn1g5Tw
6. 10 minutes: Shell Scripting Tutorial for Beginners 6 - File test operators.
    https://youtu.be/uVi5o38NGi0
7. 10 minutes: Shell Scripting Tutorial for Beginners 7 - How to append output to the end of text
    file. https://youtu.be/0Z72-LpvwjU
8. 6 minutes: Shell Scripting Tutorial for Beginners 8 - Logical 'AND' Operator.
    https://youtu.be/m4G3MLK8l4s
9. 5 minutes: Shell Scripting Tutorial for Beginners 9 - Logical 'OR' Operator.
    https://youtu.be/RtbeGJfssGQ
10. 7 minutes: Shell Scripting Tutorial for Beginners 10 - Perform arithmetic operations.
    https://youtu.be/kr3WP_-bu8A
11. 7 minutes: Shell Scripting Tutorial for Beginners 12 - The case statement.
    https://youtu.be/dW3oYQbNFyI
12. 8 minutes: Shell Scripting Tutorial for Beginners 13 - The case statement Example.
    https://youtu.be/dqaMU4v6KvQ
13. 10 minutes: Shell Scripting Tutorial for Beginners 14 - Array variables.
    https://youtu.be/p4ZHbf4_6IU
14. 6 minutes: Shell Scripting Tutorial for Beginners 15 - WHILE Loops.
    https://youtu.be/iwEteYwKDfE
15. 7 minutes: Shell Scripting Tutorial for Beginners 17 - Read a file content in Bash.
    https://youtu.be/A-rBp1OJSH4
16. 8 minutes: Shell Scripting Tutorial for Beginners 19 - FOR loop. https://youtu.be/mhhAbETJpag
17. 6 minutes: Shell Scripting Tutorial for Beginners 20 - use FOR loop to execute commands.
    https://youtu.be/qnmlnu-J3_g
18. 9 minutes: Shell Scripting Tutorial for Beginners 23 - Functions. https://youtu.be/kvQpx0q3qhY
19. 8 minutes: Shell Scripting Tutorial for Beginners 24 - Local variables.
    https://youtu.be/16T4e4DME8I
20. 11 minutes: Shell Scripting Tutorial for Beginners 25 - Function Example.
    https://youtu.be/x8Zbspqm_x4

21. 7 minutes: Shell Scripting Tutorial for Beginners 28 - How to debug a bash script.
https://youtu.be/yrIlmyRST8c

II. Presentation Slides (attached): Linux Basics and Shell Scripting.

In the course material, slides from 33-35, hands-on list is given.

III. Students should complete all the 16 lab exercise and upload the answers in LMS.