Ahmedabad University School of Engineering and Applied Science

B.Tech (ICT), Semester - V Course: CSE341- Operating Systems Lab Assignment - 3, Shell Programming

Instructions

- Write and test shell scripts/programs on Unix/Linux platform
- Last date of submission: 31/08/2020
- This assignment should be submitted on an individual basis and use LMS as a mode of submission.

grep command

- 1) Search the following
 - a) Word "kind or wind" in all file of current directory
 - b) Sequence of three integers
 - c) Search for the word/s where 'm' should be the first character in the word/s.
- 2) Display names of all files that contains string "nice time"
- 3) Display line numbers of the files that contains the words "hello"
- 4) Search the string "nice time" in all the files in current directory and its subdirectories.
- 5) Display 5 lines in the file before and after the string "Good Morning".

File System Permissions

- 1) How can you tell if a user has been active at the terminal recently?
- 2) Find difference between
 - \$date; who | wc and \$(date; who) | wc
- 3) Create a file named 'nu' that contains
 - 'who | wc -l' and run it on shell.
- 4) Write a shell script to delay execution of current process by 10 seconds.

awk command

- 1) Print name and time of login sorted by time
- 2) Add line numbers to an input stream
- 3) Collect each line of input in a separate array element then prints them out in reverse order.
- 4) Write down a program which works like a scientific calculator and performs following operations
 - Floating point calculations
 - Trigonometric operations
 - Logarithms
 - Exponent