

AACS2284 OPERATING SYSTEMS (PRACTICAL)

Practical 1: Performing Basic Linux Tasks

1. Which of these statements about open sources software are true? (Select all that apply.)
 - a) Its source code is accessibility by all
 - b) Users have the right to modify and redistribute it
 - c) It available at zero price (some are not free)
 - d) It cannot be updated
2. What are the advantages of Linux? (Select all that apply.)
 - a) Enables software to be customized
 - b) Comes with strong single-vendor support
 - c) Increases the likelihood of bugs being detected because of increased numbers of programmers who can view the code.
 - d) Fosters a community among users and a sense of shared responsibility for the software
3. Write the output for date command using each of the following format:
 - a. \$date "+This is the date"
This is the date
 - b. \$date "+This is the date: %B"
This is the date: January
4. Write a command to show the date using each of the following format:
 - a. Date: 30 October 2019
\$date "+Date: %d %B %Y"
 - b. Today is Friday (30/10/2019)
\$date "+Today is %A(%d/%m/%Y)"
 - c. Date Today: 30-10-2019 & Time Now: 12:30 PM
\$date "+Date Today: %d-%m-%Y & Time Now: %l:%M %p"
5. Determine and explain the result of the following commands:
 - a. wall -- Write a message to all user
 - b. echo -- Display a line of text
 - c. uname -- Print system information
 - d. last -- Show a listing of last logged in user
6. Write command(s) based on the following scenario:
 - a. To display the manual for the **sed** command -- man sed
 - b. To check the name of the Linux system -- hostname
 - c. To clear terminal screen and exit the terminal -- clear ; exit
 - d. To view for the current month calendar -- cal
 - e. To show the summary of **gzip** command -- whatis gzip

7. Fill in the following UNIX commands:

Command	Function	Note
<code>date</code>	To list the date and time of the server.	
<code>date -s "datestr"</code>	To set time and date to the value specified. Eg. "11/20/2019 12:48:00"	
<code>cal month year</code>	To show calendar of the specified month and year.	
<code>man</code>	To provide in depth information about the requested command.	
<code>man -k keyword</code>	To search for commands related to a particular keyword.	
<code>command --help</code>	To display a short help file.	
<code>clear</code>	To clear the screen.	
<code>pwd</code>	To displays the name of the current working directory.	
<code>su</code> <code>su username</code>	To become super user or another user.	
<code>sudo command</code>	To allow a user to execute a command as the superuser.	
<code>exit</code>	To leave the current shell session.	

Notes: Common formatting characters for the date command:

- `%D` – Display date as mm/dd/yy
- `%Y` – Year (e.g., 2020)
- `%m` – Month (01-12)
- `%B` – Long month name (e.g., November)
- `%b` – Short month name (e.g., Nov)
- `%d` – Day of month (e.g., 01)
- `%j` – Day of year (001-366)
- `%u` – Day of week (1-7)
- `%A` – Full weekday name (e.g., Friday)
- `%a` – Short weekday name (e.g., Fri)
- `%H` – Hour (00-23)
- `%I` – Hour (01-12)
- `%M` – Minute (00-59)
- `%S` – Second (00-60)

Sample Answer :

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 - c) **Increases the likelihood of bugs being detected because of increased numbers of programmers who can view the code.**
 - d) **Fosters a community among users and a sense of shared responsibility for the software**

3. Write the output for date command using each of the following format:
 - a. \$date "+This is the date"
This is the date
 - b. \$date "+This is the date: %B"
This is the date: June

4. Write a command to show the date using each of the following format:
 - a. Date: 30 October 2019
date "+Date: %d %B %Y"
 - b. Today is Friday (30/10/2019)
date "+Today is %A (%d/%m/%Y)"
 - c. Date Today: 30-10-2019 & Time Now: 12:30 PM
date "+Date Today: %d-%m-%Y & Time Now: %l:%M %p"

5. Determine and explain the result of the following commands:
 - a. wall **write a message to users.**
 - b. echo **display a line of text.**
 - c. uname **print system information.**
 - d. last **show listing of last logged in users**

6. Write command(s) based on the following scenario:
 - a. To display the manual for the sed command **man sed**
 - b. To check the name of the Linux system **hostname**
 - c. To clear terminal screen and exit the terminal **clear; exit**
 - a. To view for the current month calendar **cal**
 - b. To show the summary of gzip command **whatis gzip**

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exit	To leave the current shell session.	