Operating System Lab

Time Duration : 4-6 hrs

1. Write a Bash script that declares two variables, "firstName" and "lastName", and assign them your first name and last name, respectively. Print a message greeting yourself using variable interpolation.
2. Write a Bash script that prompts the user to input their favorite mobile. Store the input in a variable named "mobile" and display a message including their favorite mobile.
3. Write a Bash script that declares two variables, "var1" and "var2", and assign them two different words. Concatenate the variables and print the result.
4. Write a Bash script that uses command substitution to store the output of the datetime command in a variable named "currentDateTime". Print the value of "currentDateTime".
5. Write a Bash script that declares an array named "colors" containing the names of your favorite colors. Print the entire array.
6. Write a Bash script that utilizes special variables like $0, $#, $@, and $? in a script and display their values.
7. Write a Bash script that uses input redirection to read the contents of a file named "exec\_stderr.txt" and then echoes those contents to the terminal.
8. Write a [Bash](https://www.w3resource.com/bash-script-exercises/input-output-redirection.php) script that redirects the output of a command to another command as input, such as ls | grep .txt to list only files with a ".txt" extension.
9. Write a Bash script that checks if a file named "test.txt" exists in the current directory, and if it does, prints "File exists", otherwise prints "File does not exist".
10. Write a Bash script that prompts the user to enter their age, and then checks if the age is greater than or equal to 18. If it is, print "You are an adult", otherwise print "You are a minor".
11. Write a Bash script that checks if a file named "abc.sh" is executable and if it is, runs the script, otherwise prints "Script is not executable".
12. Write a [Bash](https://www.w3resource.com/bash-script-exercises/conditional-statements.php) [script](https://www.w3resource.com/bash-script-exercises/conditional-statements.php) that checks if a user is logged in and if they are, prints their username, otherwise prints "User is not logged in".
13. Write a Bash script that prompts the user to input a number and then uses a for loop to print the multiplication table of that number up to 10.
14. Write a Bash script that uses a while loop to continuously prompt the user for their name until they enter "quit" to exit.
15. Write a Bash script that utilizes a for loop to iterate through a list of files in the current directory and print each filename.
16. Write a Bash script that prompts the user to input a password and keeps prompting until the correct password is entered using a while loop.
17. Write a Bash script that deletes a file named "file1.txt".
18. Write a Bash script that creates three directories named "dir\_1", "dir\_2", and "dir\_3" in the current directory.
19. Write a Bash script that copies all files with the ".txt" extension from one directory to another.
20. Write a Bash script that moves multiple directories named "dir1", "dir2", and "dir3" to a new location named "new\_dir".
21. Write a Bash script that deletes all files with names starting with "error" in the current directory.