

SHELL SCRIPTING PROBLEMS

Write a shell script:

1. To compare two numbers and print the largest, Give the numbers from the command line.
2. To find whether the given number is Even or Odd.
3. Which receives 2 file names as arguments? It should check whether the two files contents are same or not.
4. To print the contents of a file from the given line number to another given line number. Get arguments (file name , first line number, second line number) from command line.
5. To generate all combinations of 1,2 and 3 using for loops.
6. To read a directory as a command line argument and delete all files in that directory whose size is 0 bytes.
7. To print numbers 1 to 10 using until construct.
8. Move all hidden files from the given directory to a newly created subdirectory.
9. Program which accepts a name as argument and then checks whether it exists as a directory. If it doesn't exist create the directory or if it exists as an ordinary file, then remove the file and create the directory.
10. To traverse directory trees in breadth-first order. Breadth-first searches explore all the nodes at a given level before descending lower in the tree.

Advanced scripting [Section to be covered: Arrays, functions, Dialog utility, select utility]

11. write a script and put the script in .profile, the script should run as soon as you log on to system and it print any one of the following message in info box using dialog utility according to your system time (good morning and good afternoon)
12. find the factorial of a number using recursive function call
13. Read 10 strings to an array; sort it (alphabetic sorting) and print them
14. using select construct, Write a menu driven program to implement following
 1. create a file (using touch)
 2. rename a file
 3. delete a file
 4. copy file
15. write a script to check whether given number is prime or not using function
16. Check whether a given number is Armstrong number or not
17. create your own customized shell
18. depth first traversal of a directory tree

19. Write a shell script that compares two given files and displays the number of common words.
20. Create a mark display system. This has two actors, administrator and a normal user. The administrator can add the following details about the students: Roll No (unique), Name and grade. A normal user can only view the marks of a particular student by entering the roll no. The admin too can view the marks. The system should give functionalities based on the user. Proper error messages must be displayed. In case of admin, it should check if the roll no already exists in case of entry to the system. Bonus: Make the grade field not null. Modify admin so that he can view the grades of all students and the average of the class. Give admin a password.(Use of grep, decision making, writing to file, validation using shell programming).
21. Write a menu driven pgm for address book management
Address Book
 1. List / Search
 2. Add
 3. Edit
 4. Remove