

Assignment-3

1. How can you find out how long the system has been running? How to check the status of the password for the user named ITW1 ?
2. Write a shell script to get current date, time, user name and current working directory.
3. Write a command to perform calculations of expression (5+5, 7-6) in file by directing the file to bc. How to print numbers from [1-9] without using script and for loop statement.
4. How processes on the system are linked to each other write a command to print the structure. Also write the command to check the execution time of a process.
5. What will the output of the command: `$ ps -t dev/console`
6. Write a shell script to take two numbers from command line and show result of dividing small number with bigger number. Also note that it should not accept zero or negative number. If user enter zero or negative number then it should prompt to "input correct number " after displaying proper message.
7. Write a shell script to examine all the number from 1 to 999 and display all those number whose sum of cube of the digit is equal to the number. E.g. $371 = 3*3*3 + 7*7*7 + 1*1*1$.
8. Write a shell script to check if name given is file or directory and if it is a file then it should display content and if it is a directory then it should display the list. Also list all the files of the current directory having read and write permission to the user.
9. Write a shell script which takes input as a string on a terminal and check whether it is palindrome or not a palindrome.
10. Write a shell script to check the given year is leap year or not a leap year.
11. Write a shell script to display the list of prime number. It takes input as "How many prime numbers:" from the user. E.g.: How many prime numbers: 4 then it displays 2,3,5,7.
12. Write a shell script to reverse the input digits.
13. Write a script to generate a password of minimum length of 8. It must be alphanumeric, containing at least one upper case and one lower case character.
14. Write a command to remove blank lines in a file. Write a command to find the total number of lines in a file?
15. Sort the data that is in human readable format say 1K, 2M, 3G, 2T, where K, M,G,T represents Kilo, Mega, Giga, Tera from the /home/user file.
16. Write a script to call a function with parameters. [Example: Calculate the area of a rectangle with given parameter values i.e., (10, 20)].