Assignment-4

1. Write a shell script using "sed" command to take some command from a file apply that command on content of other file and display output in third file?

2. Write a shell script using "sed" command to (a) replace the word "gum" with "drum" in the first 100 lines of a file, (b) switch the two consecutive words "apple" and "mango" in a file and (c) remove the first number on line 5 in file --- and save them in new files.

3. Write a sed command to commify the numbers till thousands from a file Number.txt ? The file have numbers in multiple lines.

4. Write a sed command to display only the first field from the /etc/passwd file.

5. Write a sed command to deletes the first line, last line and all the blank lines from input file. Also write sed command to write first and last line from an input.txt file to the output.txt file respectively.
   Let we have an input file named as student-marks.
   ```
   Name  ID  Marks
   Rohit 10 78 84 77
   Virat 03 56 58 45
   Dhoni 07 38 37
   Sachin 05 87 97 95
   Hardik 06 30 47
   ```

6. Write an awk command to check all the marks that are exist in the file student-marks. Also display the name of student whoes marks are missing ?

7. Using awk, find the average marks and grade for every student from the file student-marks.

8. Write an awk command to concatenate every 3 lines of input file with a comma.

9. Write an awk command to execute the loop except 5th iteration while printing number from 1 to 10.

10. Write an awk command to count and display the number of fields in each line of the file student-marks.

11. In the example ('how;now;brown;cow') convert the semi-colon into a space and display the first, third and fourth fields on the terminal using "cut command".

12. Using cut command write a command to change the delimiter from input delimiter : (colon) to the output delimiter # (hash) in the field location 1, 6 and 7 from the /etc/passwd file where we have pattern "/bin/bash".

13. Write a command using tr to squeeze the repetition of characters from a file. Also remove the character "a" from the file.

14. Write a shell script which takes input as a string on a terminal and check whether it is palindrome or not a palindrome.

15. Write a shell script to check the giver year is leap year or not a leap year.

16. Write a shell script to display the list of prime number. It take input as "How many prime number:" from the user. Eg: How many prime number: 4 then it display 2,3,5,7.

17. Write a shell script to reverse the input digits.

18. Using cut command write a command to change the delimiter from input delimiter : (colon) to the output delimiter # (hash) in the field location 1, 6 and 7 from the /etc/passwd file where we have pattern "/bin/bash".

19. Write a command to duplicate empty lines in a file? Also write a command to display all content of a file except for some lines.

20. How to print first and last line of the file using Sed Command ? Also write a sed command to print the lines that do not contain the word "unix" from a given file ?

21. Given a file, replace all occurrence of word "linux" with "unix" from 2th line till end in only those lines that contains word "os".

   Example: File.

   linux is great os. unix is opensource. unix is free os.

   learn operating system.
   linux linux which one you choose.
   linux is easy to learn.unix is a multiuser os.Learn unix .unix is a powerful.