1) Write a bash script to take two text values of multiple words from the user and find out which words are common on both text values. Print the common words.

For Example:

Input:

Text1-   Bash is scripting language.

Text2-   Python is a popular language now.

Output:

Common words: 'is', 'language'

2) Write bash script to take a line of text and print it in reverse order

3) Write a bash script to read a bash file and count the total number of characters, words and lines

4) Write a bash script to find out a number is prime or not

5) Write a bash script to take id, name, subject and mark of a student as command arguments and print the grade with id and name as output

6) Write a bash script to take a string as search word and search the word in a text file and print how many times it is appeared in that file

7) Write a bash script to take product price and quantity as input values and print the product information with price by calculating the discount amount based on following criteria:

1. 10% discount for 5 items
2. 15% discount for 7 items
3. 20% discount for 10 items

8) Write a bash script to declare an array of 10 string elements with duplicate value and print the array by removing and sorting duplicate elements

9) Write a bash script to read a text file that contains the result of the students (The content of the file is given below) and print the students name with CGPA according to merit.

result.txt

ID	Name	CGPA
1001	Nazrul Islam	3.56
1002	Samiul Ahmed	3.62
1003	Shazid Anan	3.45
1004	Abrar zahin	3.80
1005	Imran Hossain	3.55

Output:

1	Abrar zahin	3.80
2	Samiul Ahmed	3.62
3	Nazrul Islam	3.56
4	Imran Hossain	3.55
5	Shazid Anan	3.45

10) A. Write a bash script to take three words as command-line arguments, search each word in a file and print how many times each word appear in the file with the line number. Create a text file to test the script.[25]

B. After solving the problem(A), find out which characters are common in the three command-line argument values. [10]

11) A. Write a bash script to take a filename as input, open the file for reading, print the content of the file line by line and total number of words in the file. [25]

B. After solving the the problem-A, delete any line from the file and again print the total number of words in the file.[10]

12) **A. Write a base script to define an associative array of 10 elements where the key contains the name of the student and the corresponding value contains the marks. Print the name of the students who achieved highest number and who achieved lowest number. [25]**

B. After completing the problem-A, print how many students got the marks more than 80. [10]

13) **A. Write a bash script to take any number of 10 digits as input and find the occurrence of each digit in the number. [25]**

For example:

Input: 8775558557

Output:

8 - 2 times

7 - 3 times

5 - 5 times

B. After solving the problem-A, print how many even digits exist in the input. [10]

14) **Write a base script to take a customer id from the user as input and search the id in the following the file content. If the id exists in the file then print the customer's name with the balance.**

Customer.txt

ID Name Balance

5623 Nila 100000

8364 Akash 345000

2345 Nibir 445888

Example:

Input: 8364

Output: Akash 345000

15) **Write a bash script to take a text data of minimum 3 words and print each word of the text in reverse order.**

For Example:

Input: I like Programming

Output: I ekil gnimmargorP

16) A. Write a bash script to take a string input that defines number in words where the number value must be minimum three digits and print the number value after converting the string value into the number.
For Example:
Input: Three hundreds forty five
Output: 345

B. After completing the problem-A, print the sum of the numbers.
Output: 12

17) A. Write a bash script to take your birth year as input and find out how many years, months, weeks and days are passed. Don't use any built-in function to solve the problem.