# Assignment 3

1) Write a shell script, which finds the prime factors of a given number.

2) Write a shell script that accepts a positive integer value from the user, say 34, and prints out all the divisors of 34 as a list:
Enter a positive integer: 34
The divisors of 34 are: 1, 2, 17, and 34

3) Write a shell script, which prints good morning or good evening depending on the login time of the user.

4) A shell script, which takes as command line input a number n, and a word. It then prints the word n times, once on each line.

5) Write a shell script, which finds the total number of blank lines in the given file.

6) Write a shell script, which finds whether the number is an armstrong number or not.

**Armstrong number is *a number that is equal to the sum of cubes of its digits***

**Example: 153=(1*1*1)+(5*5*5)+(3*3*3).**

7) Write a shell script to concat string inside bash shell using variable.

8) Write a shell script to concat string inside bash shell using an array.

9) Write a shell script to extract a substring from a string.

10) Write a shell script to check whether the string is equal or not.

11) Write a shell script to check whether the string is a palindrome or not.

12) Write a shell script to check whether the given number is Perfect or not.

**A perfect number is a positive integer that is equal to the sum of its factors except for the number itself. In other words, perfect numbers are the positive integers that are the sum of its divisors. The smallest perfect number is 6, which is the sum of its factors: 1, 2, and 3**

13) Write a shell script to display the digits which are in an odd position in a given 5 digit number.

Output :

Enter 5 digit number: 12345

1

3

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