R – programming lab 4

Task -1

Write a R program to find the factors of a given number. Implement a function which prints "Trendy Number" if the given number has even number of factors otherwise print "Not a Trendy Number".

Example: 16

1, 2, 4, 8, 16

Not a Trendy Number

Task -2

Write a R program to find the maximum and the minimum value of a given vector using a) loops and b) functions

Task -3

Write a R program to implement a function **Unik_()** to get the unique elements of a given string and unique numbers of vector.

Example:

Input:

"R Programming"

12 32 10 43

Output:

R P o g a m i n

12 32 10 43

Task -4

Write a R program to print the numbers from 1 to 100 and print "Favourite" for multiples of 3, print "Lucky" for multiples of 4, and print "Lucky and Favourite" for multiples of both.

Task -5

Write a R program to get the first 10 Fibonacci numbers using a) Loops and b) Functions.

Task -6

Write a R program to illustrate the any five built-in functions of following

a). Math Functions

b). String Functions

c). Statistical functions

Example:

Math function:

1. abs(x)

Input: -10

Output: 10

String Funtiocns

1. toupper(str)
   input: Mca
   Output: MCA

Statistical Functions:

1. mean(x)
   x<- c(1,2,3)
   Men = mean(x)
2. sd(x)
   x<- c(0:20, 10)
   std.dev = sd(x)

-End of Tasks-