Day-1

1. Write a R program to take input from the user (name and age) and display the values. Also print the version of R installation.

2. Write a R program to get the details of the objects in memory.

3. Write a R program to create a sequence of numbers from 20 to 50 and find the mean of numbers from 20 to 60 and sum of numbers from 51 to 91.

4. Write a R program to create a vector which contains 10 random integer values between -50 and +50.

5. Write a R program to get the first 10 Fibonacci numbers.

6. Write a R program to get all prime numbers up to a given number (based on the sieve of Eratosthenes).

7. Write a R program to print the numbers from 1 to 100 and print "Fizz" for multiples of 3, print "Buzz" for multiples of 5, and print "FizzBuzz" for multiples of both.

8. Write a R program to extract first 10 english letter in lower case and last 10 letters in upper case and extract letters between 22^{nd} to 24^{th} letters in upper case.

9. Write a R program to find the factors of a given number.

10. Write a R program to find the maximum and the minimum value of a given vector.

11. Write a R program to get the unique elements of a given string and unique numbers of vector.

12. Write a R program to create three vectors a,b,c with 3 integers. Combine the three vectors to become a 3×3 matrix where each column represents a vector. Print the content of the matrix.

13. Write a R program to create a list of random numbers in normal distribution and count occurrences of each value.

14. Write a R program to read the .csv file and display the content.

15. Write a R program to create three vectors numeric data, character data and logical data. Display the content of the vectors and their type.

16. Write a R program to create a 5 x 4 matrix , 3 x 3 matrix with labels and fill the matrix by rows and 2 × 2 matrix with labels and fill the matrix by columns.

17. Write a R program to create an array, passing in a vector of values and a vector of dimensions. Also provide names for each dimension.

18. Write a R program to create an array with three columns, three rows, and two "tables", taking two vectors as input to the array. Print the array.

19. Write a R program to create a list of elements using vectors, matrices and a functions. Print the content of the list.

20. Write a R program to draw an empty plot and an empty plot specify the axes limits of the graphic