DAY4 Exercises – Save the solutions to Day4.R file

Data Frames

1) Create the following data frame.

	Age	Height	Weight	Sex
Alex	25	177	57	F
Lilly	31	163	69	F
Mark	23	190	83	M

2) Create another data frame with the following data

	Working
Alex	Yes
Lilly	No
Mark	No

Add this data frame as new column to the previous one.

a) What class of data is in each column?

b) Calculate the mean of heights of the people

c) Obtain the BMI of all and add it as a new column to the data frame.

d) Add another column which shows   whether the person is healthy based on the BMI
(greater than 25 = False, else True)

Read Input

3) Read data from the file records1.txt to variables r1.
4) Read data from the houses.csv file to a variable

Array

5) Create an array having 2X3X3 dimension, populate the numbers from 1 to 20 in the array.
Attach row, column and matrix names

Built in Data Frames

6) a. From the mtcars data frame, extract the mpg, cyl and hp to prepare a new data frame.
   b. Combine the first 5 rows and last 5 rows of mtcars to a new data frame

Loops

7.   Create a for loop that, given a numeric vector, prints out each number's square and
cube values in a single line   (use paste function to combine the number and the cube
to show in single line)

a) Show how to use a while loop to achieve the same result.

b) Prepare a loop which prints all the numbers from 1 to 100 except those which are
divisible by 13