Introduction to R – Practice Learning Activity

Purpose

The purpose of this assignment is to engage with the R software. As you work through this practice activity, if you have any questions you are encouraged to post them in the Module 2: Question and Answer discussion forum.

While this is a practice activity, you will need to successfully complete this activity in order to complete the other assignments and group project in this course.

Learning Outcomes

The assignment will help you with the following module outcomes:

- Install Base R and dependent Libraries. (CLO 5)
- Identify key variable types in R. (5)
- Identify different parts/modules of R-studio environment. (CLO 5)
- Run basic commands in R. (CLO 5)
- Import/export data to/from R. (CLO 5)

Directions

In this assignment, you will focus on the following questions:

1. Create a new variable 'b' with value 1947.01 and check the class of 'b'.

2. Convert 'b' from previous exercise to character and store the result into a new variable 'b_char'.

3. Create a vector containing following mixed elements {1, 'a', 2, 'b'} and find out its class

3. Create a dataframe and name it DF. This dataframe should contain Three columns with the following names C1, C2 and C3. C1 should contain numeric values 1 and 4.37. C2 should contain "Red" and "Blue" and C3 should contain TRUE and FALSE.

4. Select and print C1 column of the DF dataframe in the previous example.

5. Consider the following dataframe:

```
DF<-data.frame(V1=1:6,          Countries=c('US',          'UK','UK',
'India','China','India'))
```

Show the frequency (i.e. count) of each of the countries in the data frame.

6. Define a variable x=0.75. write a code to crat a variable y whose value is dependent on the value of x. If x is positive, y should be set to 14 otherwise it should be set -19.7. Change the value of x to -1 and evaluate your code again.