**V506 R Introductory Lab Exercise – Fall 2024**

1. Set and confirm your working directory, preferably to your cloud storage folder that you will use for V506.
2. Install and load the packages, “rmarkdown”, “dplyr” , and “Tidyverse” to R.
3. Import the Banking.csv file (download from the *R Labs>Introductory Lab* folder in Canvas and save to your working directory) to a data frame called *atm*. This file contains the variables indicated below. Confirm that the variables listed below are the same as what you imported using the names() or colnames() function.
4. Confirm the structure of the data frame and, using the head(*)* and *tail()* functions, print the first 8 and last 10 observations in the Console Window.
5. Using the nrow() function, determine the number of rows in the data frame.
6. Generate and print basic descriptive statistics for the *atm* data frame.
7. Create and print a new variable called *balatm*, which represents the balance per ATM transaction (i.e., balance divided by the number of ATM transactions per month). Make this into a data.frame with 1 column and 60 rows.
8. Write the *balatm* vector to your working directory as "balatm.R", and confirm its presence on your storage media.
9. If you have time, transfer your code to an R Markdown program and generate an HTML Report that includes Steps 1-9 above, along with some comments that document various parts of the program.

**Banking Data Set**

Balance = Account balance in dollars  
ATM = Number of ATM transactions in the month  
Services = Number of other bank services used  
Debit = Account has a debit card (1 = yes, 0 = no)  
Interest = Receives interest on the account (1 = yes, 0 = no)

City = City where banking is done