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**Subject: Project 4**

**Class: DSCI 502**

**Section: 01W**

**Instructor: Sean Yang**

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1. Read the dataset in loan.csv into R. Call the loaded data, loan. Make sure that you have the directory set to the correct location for the data.
2. Which variables (columns) are continuous/numerical variables? Which columns are factors (categorical variables)?
3. Calculate the minimum, maximum, mean, median, standard deviation and three quartiles (25th, 50th and 75th percentiles) of loan\_amnt.
4. Calculate the minimum, maximum, mean, median, standard deviation and three quartiles (25th, 50th and 75th percentiles) of int\_rate.
5. Calculate the correlation coefficient of the two variables: int\_rate and installment. Do they have a strong relationship?
6. Calculate the frequency table of term? What’s the mode of term variable?
7. Calculate the proportion table of loan\_status? What’s the mode of loan\_status variable?
8. Calculate the cross table of term and loan\_status. Then produce proportions by row and column respectively.
9. The data is stored in the data frame, loan. Please summarize all the variables using one command.