HW#1 (due 11:59 pm on Jan 27, Thursday)

Note: Each group submits one Jupyter Notebook via Blackboard.

Problem 1. (5 points) Finish the pre-course survey

In Jupyter Notebook (using the Markdown cell), write a sentence that all members of the team have finished the survey.

Problem 2. (5 points) Install Jupyter Notebook

In Jupyter Notebook, write a sentence that all members of the team have successfully installed the software on their personal computers.

Problem 3. (40 points) Data processing.

data1=pd.read_csv("https://raw.githubusercontent.com/wangx346/MAS651/main/customer_lifetime_value.csv)

This is a data set from an insurance company investigating customers' lifetime value.

(1) Display the last 5 records
(2) Find the number of rows and columns of the data
(3) Output basic statistics for the numeric columns
(4) Find the mean and standard deviation of the variable Clv, which denotes customer lifetime value
(5) Extract the column Education and print the first 7 records
(6) Group the data using education and name the data set data1_edu
(7) Calculate the mean of Clv for the grouped data
(8) Group using two variables Education and Gender, then calculate the mean of Clv
(9) Make a histogram of Clv