

Compulsory Task 1

Open the **Datasets Compulsory task.ipynb** file and complete the following tasks in the notebook. Save your notebook to your task folder for submission.

1. Write the code that performs the action described in the following statements.
 - a. Select the 'Limit' and 'Rating' columns of the first five observations
 - b. Select the first five observations with 4 cards
 - c. Sort the observations by 'Education'. Show users with a high education value first.
2. Write a short explanation in the form of a comment for the following lines of code.
 - a. `df.iloc[:,:]`
 - b. `df.iloc[5:,5:]`
 - c. `df.iloc[:,0]`
 - d. `df.iloc[9,:]`

Compulsory Task 2

Open and run the example file for this task in VS Code before attempting this task. Follow these steps:

- Open the **Report.ipynb** in this folder.
 - Create a DataFrame that contains the data in **balance.txt**.
 - Write the code needed to produce a report that provides the following information:
 - Compare the average income based on ethnicity.
 - On average, do married or single people have a higher balance?
 - What is the highest income in our dataset?
 - What is the lowest income in our dataset?
-
- How many cards do we have recorded in our dataset? (Hint: use `sum()`)
 - How many females do we have information for vs how many males? (Hint: use `count()`. For a list of all methods for computation of descriptive stats, explore the [pandas documentation](#).)