**Task 1: Display Data**

**Objective:** Use PROC PRINT to display selected columns and observations.

1. Display the columns Name, Sex, and Height from the SASHELP.CLASS dataset.
2. Show only the observations where Age is greater than 13.
3. Use the NOOBS option to remove observation numbers from the output.

**Task 2: Sorting Data and Creating a Character Column**

**Objective:** Use the DATA step to add a new character column based on a condition and sort the data.

1. Use the SASHELP.CLASS dataset.
2. Create a new dataset work.class\_with\_categories.
3. Add a new character column Category based on the following conditions:
   * If Age is less than or equal to 13, set Category to "Young".
   * If Age is greater than 13, set Category to "Teenager - Advanced Group" (a longer value).
4. Ensure the Category column can accommodate the longest value.
5. Sort the new dataset by Category and Name, then save it as work.class\_sorted.
6. Use PROC PRINT to display the sorted dataset.

**Task 3: Joining Two Tables**

**Objective:** Use PROC SQL/the SQL language/the DATA STEP to join two tables and create a new dataset.

1. Use the following datasets from the **SASHELP** library:
   * SASHELP.CLASS (contains student names, age, height, and weight).
   * SASHELP.CLASSFIT (contains student names, predicted height, and predicted weight).
2. Perform an inner join on the two tables using the Name column.
3. Create a new dataset work.class\_joined containing the following columns:
   * Name
   * Age
   * Height (from SASHELP.CLASS)
   * Weight (from SASHELP.CLASS)
   * Predicted\_Height
   * Predicted\_Weight
4. Add a calculated column Height\_Difference that shows the difference between Height and Predicted\_Height.
5. Sort the resulting dataset by Height\_Difference in descending order.
6. Use PROC PRINT to display the results.