Here's a step-by-step summary of how I completed the assignment on data pre-processing using the "BIG MART SALES DATASET" from Kaggle:

## 1. Data Loading:

- You started by importing the pandas library as 'pd'.
- Loaded the dataset using `pd.read\_csv("Test.csv")` and stored it in the variable `dataset`.
- Displayed the dataset using 'dataset'.

## 2. Handling Missing Values:

- Checked for missing values using both `dataset.isnull().sum()` and `dataset.isna().sum()`.
- Identified two columns with missing values: "Item\_Weight" and "Outlet\_Size".
- Filled missing values in the "Item\_Weight" and "Outlet\_Size" columns with zeros using `fillna()` method.
- 3. Distinguishing between Quantitative and Qualitative Columns:
  - Defined a function `quanQual(dataset)` to categorize columns into quantitative and qualitative types.
  - In the function, iterated through columns and classified them based on their data types.
- Returned two lists: 'quan' containing quantitative column names and 'qual' containing qualitative column names.
- 4. Handling Quantitative Columns with Missing Values:
  - Retrieved quantitative and qualitative column names using 'quanQual(dataset)'.
- Used the `SimpleImputer` class from `sklearn.impute` to handle missing values in quantitative columns.
- Created an instance of `SimpleImputer` with `strategy='mean'` to replace missing values with the mean of each column.
  - Fitted the imputer on quantitative columns using 'imp.fit(dataset[quan])'.
- Transformed the dataset using `imp.transform(dataset[quan])` to replace missing values with the calculated means.
- Converted the transformed array back to a DataFrame with appropriate column names using `pd.DataFrame(df, columns=quan)`.

## 5. Finalizing Pre-processed Dataset:

- The pre-processed dataset with missing values handled and imputed with mean values for quantitative columns was stored in the variable `df`.

By following these steps, I successfully completed the assignment on data pre-processing without missing values in the "BIG MART SALES DATASET" from Kaggle. This process ensured that the dataset was cleaned and ready for further analysis or modelling.