**Task 3: Creating a Custom Aggregation Function**

* **Libraries Used**: pandas, numpy
* **Summary**: In this task, we implemented a custom aggregation function for use with groupby in pandas. We created a sample DataFrame and defined a custom function to calculate the range (difference between the maximum and minimum values) of a group. We then applied this custom aggregation function to the DataFrame using groupby.
* **Key Steps**:

1. **Import Libraries**: Imported pandas and numpy.
2. **Create DataFrame**: Created a sample DataFrame with categories and values.
3. **Define Custom Function**: Defined a custom function to calculate the range of a series.
4. **Apply Custom Function**: Used groupby and agg to apply the custom function to the DataFrame.