

Classroom Assignment <6>: Pandas DataFrame – Grouping & Aggregation

Learning Objective:

Learn how to group and summarize test results in Pandas.

Expected Completion Time:

Best Case: 20 minutes Average Case: 25 minutes

Assignment Details:

Create a Python script named **pandas_dataframe_grouping.py** that:

1. Creates a DataFrame:

TestCase Module Status Duration

TC1	Login	Passed	12
TC2	Login	Failed	15
TC3	Payment	Passed	20
TC4	Payment	Failed	18
TC5	Reports	Passed	25
TC6	Reports	Passed	22

- 2. Groups by Status and counts Passed vs Failed.
- 3. Groups by Module and finds average Duration per module.

Hints to Solve:

- Use .groupby("Status")["TestCase"].count().
- Use .groupby("Module")["Duration"].mean().

Expected Outcome:

- erform grouping like Excel Pivot Tables.
- Summarize test results by status and module.