Classroom Assignment <4>: Pandas Series – Test Pass Rate %



**Learning Objective:**

Use Pandas Series to analyze test pass percentages across builds.

**Expected Completion Time:**

Best Case: 10 minutes Average Case: 15 minutes

# Assignment Details:

Create a Python script named **pandas\_series\_passrate.py** that:

1. Creates a Series for test pass percentage across 5 builds:
2. [80, 85, 78, 90, 88]

with labels: ['B1','B2','B3','B4','B5']

1. Prints the Series.
2. Calculates and prints the average pass rate.
3. Finds which build had the highest pass rate.
4. Uses **iloc** to print pass rate of the last build.
5. Uses **loc** to print pass rate of Build B3.
6. Normalizes values by subtracting average from each pass rate.

**Hints to Solve:**

 Use .mean(), .idxmax().

 Use .iloc[-1], .loc['B3'].

 Use series - series.mean().

# Expected Outcome:



 Perform trend analysis using Series.

 Understand how to select values with loc/iloc.

 Use Series arithmetic for comparisons.