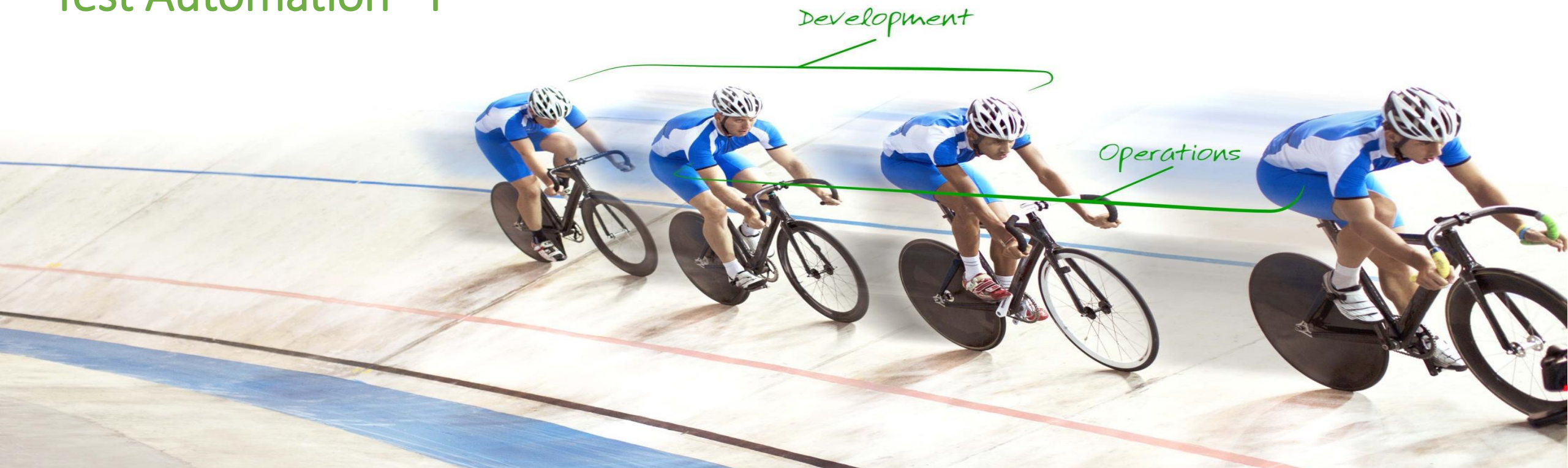




Test Automation - I





LAB – Test Driven Development

TDD Lab – Simple Interest Calculator

Objective: Implement Requirement and refactor code using TDD approach

Write a program that calculates Simple Interest amount for given principal amount and duration.

Read below mentioned scenarios one by one and implement them using TDD approach.

Scenario 1

- For a given principal amount and tenure calculate the Interest Amount. (Assume interest rate of 5.3%)

Input		Expected Output
Principal Amount	Tenure	Interest Amount
5000	365 days	265

Scenario 2

- If the tenure is less than 365 days, then interest rate should be 5.2%.

Input		Expected Output
Principal Amount	Tenure	Interest Amount
6100	350 days	304.16

Scenario 3, 4 and 5

3. If Senior citizen (60+) then extra .1% to be added.
 4. If amount is greater than 500000 then the tenure can't be less than 2 years
(To keep it simple 2 years = 730 days)
 5. Calculated Interest Amount should be rounded off to 2 decimal places.
- **Challenge Steps (do as many as you can in any order):**
 - If minor (less than 18 years) then tenure must be greater than or equal to the time a minor achieves age of 18 (For calculation purpose, assume that 1 year is always equal to 365 days).
 - Principal amount should always be in multiple of 500, if not throw exception.
 - Woman gets Interest Amount 1.2 times of the given tenure.