

# NUNIT

## 1. TestFixture & Test

The screenshot shows the Test Explorer window in Visual Studio. The top status bar indicates "Test run finished: 3 Tests (3 Passed, 0 Failed, 0 Skipped) run in 602 ms". The test results table shows a hierarchy of tests, all of which passed. The right-hand pane displays the "Group Summary" for "CalcLibrary.Tests", showing "Tests in group: 3" and "Total Duration: 75 ms". The "Outcomes" section shows "3 Passed".

Test	Duration	Traits	Error Message
CalcLibrary.Tests (3)	75 ms		
CalcLibrary.Tests (3)	75 ms		
CalculatorTests (3)	75 ms		
TestAddition (3)	75 ms		
TestAddition(0,0,0)	< 1 ms		
TestAddition(10,-2,8)	< 1 ms		
TestAddition(5,3,8)	75 ms		

Group Summary  
CalcLibrary.Tests  
Tests in group: 3  
Total Duration: 75 ms  
Outcomes  
3 Passed

## 2. Parameterized test cases

The screenshot shows the Test Explorer window in Visual Studio. The top status bar indicates "Test run finished: 14 Tests (14 Passed, 0 Failed, 0 Skipped) run in 898 ms". The test results table shows a hierarchy of tests, all of which passed. The right-hand pane displays the "Group Summary" for "CalcLibrary.Tests", showing "Tests in group: 14" and "Total Duration: 51 ms". The "Outcomes" section shows "14 Passed".

Test	Duration	Traits	Error Message
CalcLibrary.Tests (14)	51 ms		
CalcLibrary.Tests (14)	51 ms		
CalculatorTests (14)	51 ms		
TestAddition (3)	< 1 ms		
TestDivision (3)	1 ms		
TestMultiplication (3)	< 1 ms		
TestSubtraction (3)	< 1 ms		
TestAddAndClear	36 ms		
TestDivisionByZero	14 ms		

Group Summary  
CalcLibrary.Tests  
Tests in group: 14  
Total Duration: 51 ms  
Outcomes  
14 Passed

### 3. UtilLib Project

Test Explorer

Test run finished: 5 Tests (5 Passed, 0 Failed, 0 Skipped) run in 847 ms

0 Warnings 0 Errors

Test	Duration	Traits	Error...
UtilLib.Tests (5)	56 ms		
UtilLib.Tests (5)	56 ms		
UrlHostNameParserTests (5)	56 ms		
ParseHostName_EmptyString_ThrowsFormatException	45 ms		
ParseHostName_InvalidFormat_ThrowsFormatException	1 ms		
ParseHostName_NonHttpProtocol_ThrowsFormatException	1 ms		
ParseHostName_ValidHttpsUrl_ReturnsHostName	< 1 ms		
ParseHostName_ValidHttpUrl_ReturnsHostName	9 ms		

Run | Debug

**Group Summary**

UtilLib.Tests

Tests in group: 5

Total Duration: 56 ms

**Outcomes**

5 Passed

### 4. AccountsManagerLib Project

Test Explorer

Test discovery finished: 0 Tests found in 2.3 sec

1 Warning 0 Errors

Test	Duration	Traits	Error...
AccountsManagerLib.Tests (6)	115 ms		
AccountsManagerLib.Tests (6)	115 ms		
AccountsManagerTests (6)	115 ms		
ValidateUser_BothFieldsEmpty_ThrowsFormatException	111 ms		
ValidateUser_EmptyPassword_ThrowsFormatException	1 ms		
ValidateUser_EmptyUserId_ThrowsFormatException	1 ms		
ValidateUser_InvalidPassword_ReturnsErrorMessage	1 ms		
ValidateUser_InvalidUserId_ReturnsErrorMessage	< 1 ms		
ValidateUser_ValidCredentials_ReturnsWelcomeMessage	1 ms		

Run | Debug

**Group Summary**

AccountsManagerLib.Tests

Tests in group: 6

Total Duration: 115 ms

**Outcomes**

6 Passed

## 5. CollectionsLib Project

Test Explorer

Test discovery finished: 0 Tests found in 1.1 sec

1 Warning 0 Errors

Test	Duration	Traits	Error Mess
✓ CollectionsLib.Tests (4)	139 ms		
✓ CollectionsLib.Tests (4)	139 ms		
✓ EmployeeManagerTests (4)	139 ms		
✓ GetEmployees_Collection_ShouldNotContainNullValues	36 ms		
✓ GetEmployees_EmployeeWithId100_ShouldExist	2 ms		
✓ GetEmployees_ShouldContainOnlyUniqueEmployees	84 ms		
✓ GetEmployeesAndPreviousYearEmployees_ShouldBeEqual	17 ms		

Run Debug

**Group Summary**

CollectionsLib.Tests

Tests in group: 4

⌚ Total Duration: 139 m

**Outcomes**

✓ 4 Passed