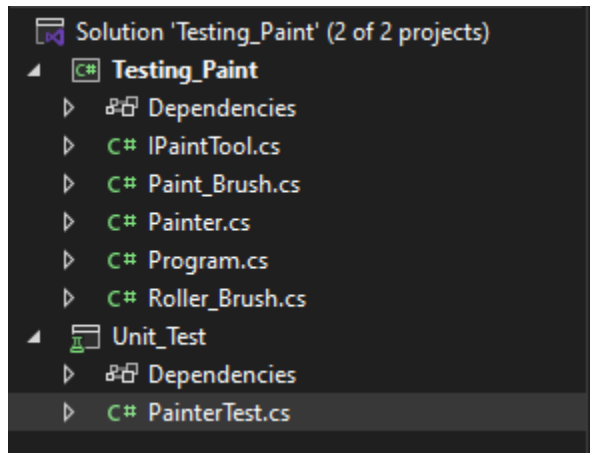


## DAY 7

13/08/2025

[GitHub](#)

Create a dependency injection sample for painter class. inject tools (or paintbrush) to painter object via dependency injection. create at least 10 nunit tests. run the tests using both visual studio and command line.



Test run finished: 10 Tests (5 Passed, 5 Failed, 0 Skipped) run in 735 ms				
Test	Duration	Error Message	Traits	
Unit_Test (10)	116 ms			
Unit_Test (10)	116 ms			
PainterTests (10)	116 ms			
DifferentTools_ProduceDifferen...	104 ms	Expected string length 28 but was 29. Strings diffe...		
PaintBrush_Name_IsCorrect	< 1 ms			
PaintBrush_Use_DoesNotThrow	7 ms	Expected: <System.Exception> But was: null		
Painter_NullTool_ThrowsArgum...	1 ms			
Painter_UsesPaintBrush	< 1 ms			
Painter_UsesRollerBrush	1 ms	Expected string length 28 but was 29. Strings diffe...		
Painter_WithBrush_OutputCont...	2 ms	Expected: String containing "Roller" But was: "Pa...		
Painter_WithRoller_OutputCont..	< 1 ms			
RollerBrush_Name_IsCorrect	< 1 ms	Expected string length 11 but was 12. Strings diffe...		
RollerBrush_Use_DoesNotThrow	1 ms			

```
MINGW64/d/visual-studio/Testing_Paint
vishnu.n@PTLL444 MINGW64 /d/visual-studio/Testing_Paint
$ dotnet test Unit_Test
Restore complete (0.9s)
Testing_Paint succeeded (0.3s) -> Testing_Paint\bin\Debug\net8.0\Testing_Paint.dll
Unit_Test succeeded (0.3s) -> Unit_Test\bin\Debug\net8.0\Unit_Test.dll
NUnit Adapter 4.5.0.0: Test execution started
Running all tests in D:\visual-studio\Testing_Paint\Unit_Test\bin\Debug\net8.0\Unit_Test.dll
NUnit3TestExecutor discovered 10 of 10 NUnit test cases using Current Discovery mode, Non-Explicit run
NUnit Adapter 4.5.0.0: Test execution complete
Unit_Test test failed with 5 error(s) and 7 warning(s) (2.8s)
C:\Program Files\dotnet\sdk\9.0.304\Microsoft.TestPlatform.targets(48,5): warning :
Painting with a brush...
Painting with a roller...

C:\Program Files\dotnet\sdk\9.0.304\Microsoft.TestPlatform.targets(48,5): warning :
Painting with a brush...

C:\Program Files\dotnet\sdk\9.0.304\Microsoft.TestPlatform.targets(48,5): warning :
Painting with a brush...

C:\Program Files\dotnet\sdk\9.0.304\Microsoft.TestPlatform.targets(48,5): warning :
Painting with a roller...

C:\Program Files\dotnet\sdk\9.0.304\Microsoft.TestPlatform.targets(48,5): warning :
Painting with a brush...

C:\Program Files\dotnet\sdk\9.0.304\Microsoft.TestPlatform.targets(48,5): warning :
Painting with a roller...

D:\visual-studio\Testing_Paint\Unit_Test\PainterTest.cs(91): error TESTERROR:
DifferentTools_ProduceDifferentOutputs (95ms): Error Message: Expected string length 28 but was 29. Strings differ at index 23.
Expected: "Painter is using Paint Brush"
But was: "Painter is using Paint Roller"
-----^

Stack Trace:
at Unit_Test.PainterTests.DifferentTools_ProduceDifferentOutputs() in D:\visual-studio\Testing_Paint\Unit_Test\PainterTest.cs:line 91
1) at Unit_Test.PainterTests.DifferentTools_ProduceDifferentOutputs() in D:\visual-studio\Testing_Paint\Unit_Test\PainterTest.cs:line 91

Standard Output Messages:
```

```
MINGW64/d/visual-studio/Testing_Paint
Expected: "Painter is using Paint BRUSH"
But was: "Painter is using Paint Roller"
-----^

Stack Trace:
at Unit_Test.PainterTests.Painter_UsesRollerBrush() in D:\visual-studio\Testing_Paint\Unit_Test\PainterTest.cs:line 27
1) at Unit_Test.PainterTests.Painter_UsesRollerBrush() in D:\visual-studio\Testing_Paint\Unit_Test\PainterTest.cs:line 27

Standard Output Messages:
Painting with a roller...
D:\visual-studio\Testing_Paint\Unit_Test\PainterTest.cs(74): error TESTERROR:
Painter_WithBrush_OutputContainsBrush (3ms): Error Message: Expected: String containing "Roller"
But was: "Painter is using Paint Brush"

Stack Trace:
at Unit_Test.PainterTests.Painter_WithBrush_OutputContainsBrush() in D:\visual-studio\Testing_Paint\Unit_Test\PainterTest.cs:line 74
1) at Unit_Test.PainterTests.Painter_WithBrush_OutputContainsBrush() in D:\visual-studio\Testing_Paint\Unit_Test\PainterTest.cs:line 74

Standard Output Messages:
Painting with a brush...
D:\visual-studio\Testing_Paint\Unit_Test\PainterTest.cs(43): error TESTERROR:
RollerBrush_Name_IsCorrect (5ms): Error Message: Expected string length 11 but was 12. Strings differ at index 0.
Expected: "Paint Brush"
But was: "Paint Roller"
-----^

Stack Trace:
at Unit_Test.PainterTests.RollerBrush_Name_IsCorrect() in D:\visual-studio\Testing_Paint\Unit_Test\PainterTest.cs:line 43
1) at Unit_Test.PainterTests.RollerBrush_Name_IsCorrect() in D:\visual-studio\Testing_Paint\Unit_Test\PainterTest.cs:line 43
C:\Program Files\dotnet\sdk\9.0.304\Microsoft.TestPlatform.targets(48,5): warning :
Painting with a roller...

Test summary: total: 10, failed: 5, succeeded: 5, skipped: 0, duration: 2.8s
Build failed with 5 error(s) and 7 warning(s) in 5.4s
vishnu.n@PTLL444 MINGW64 /d/visual-studio/Testing_Paint
$
```