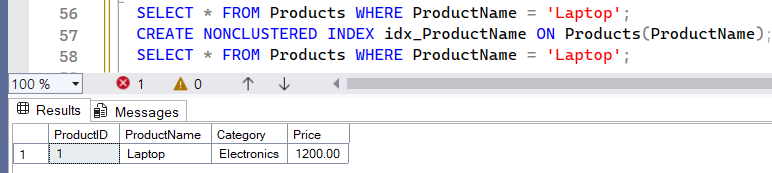
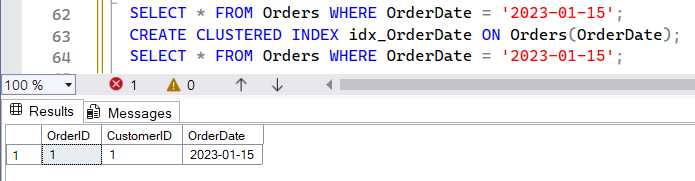
**Week2-HANDSON**

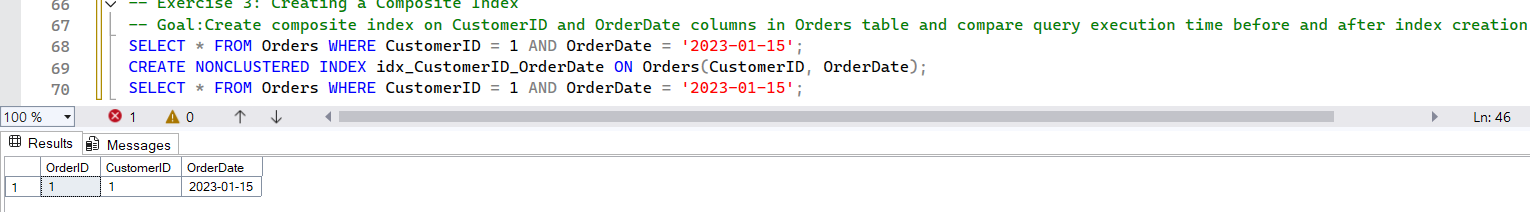
**Module 3-Advance SQL**

Exercise 1: Ranking and Window Functions (SQL Exercise - Index)

Ex1:

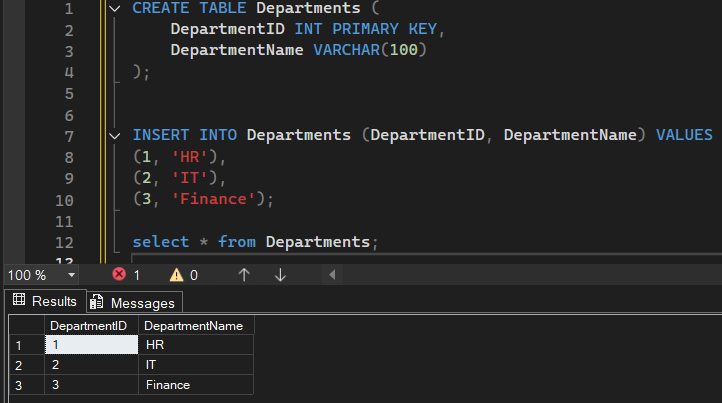


Ex2:



Ex3:

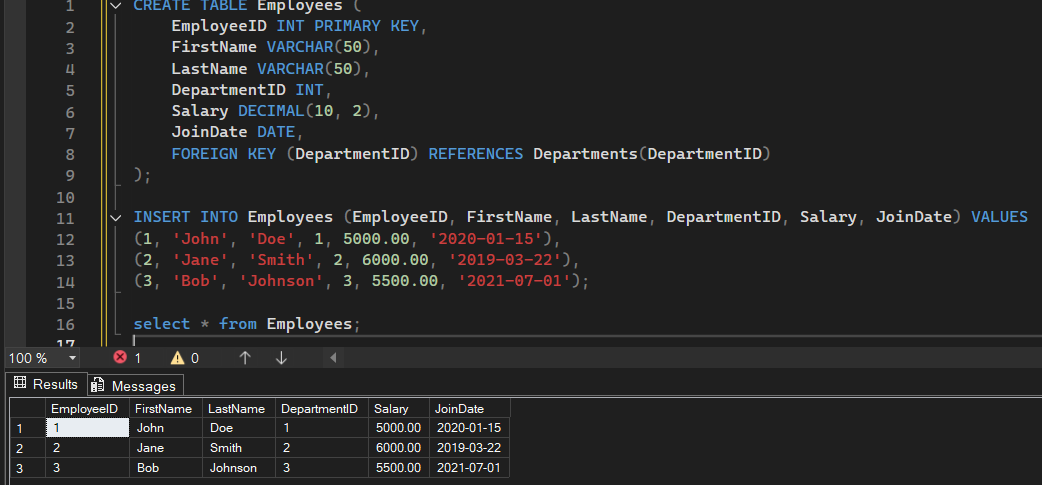
Exercise 2: Create a Stored Procedure (SQL Exercise - Functions)



1)Creating

department

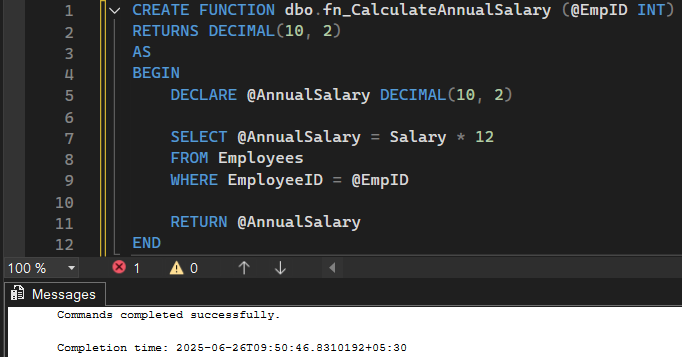
table



2)creating

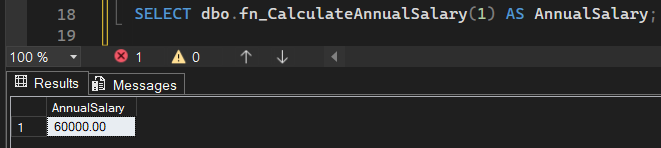
Employees

table



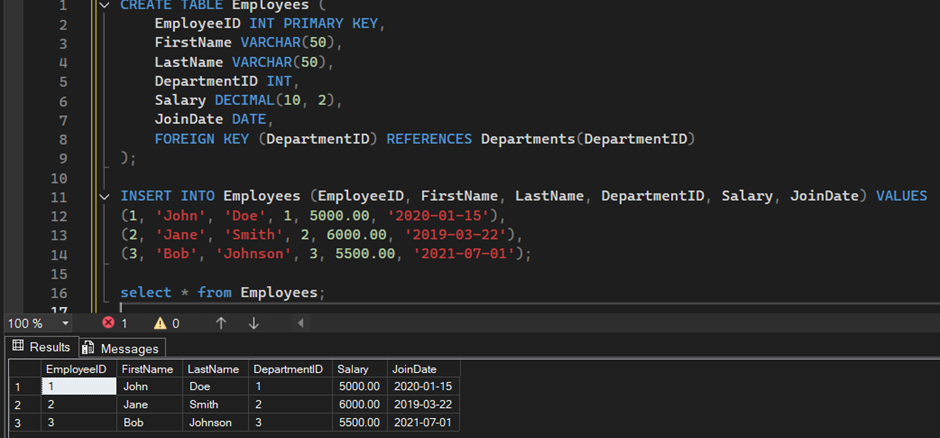
3)creating

function



Output

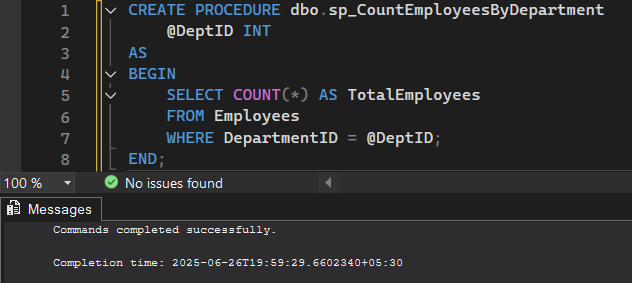
Exercise 3: Return Data from a Stored Procedure (SQL Exercise - Stored procedure)



1)creating

Employees

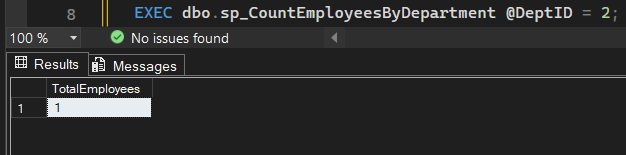
table



2)creating

Stored

Procedure



Output

**Module3-Nunit & MOQ testing**

Ex1-Hands-on in this document(Nunit-Calculator)

Step1- Create folder in vs code and execute below in terminal

dotnet new classlib -n CalcLibrary

dotnet new nunit -n CalcLibrary.Tests

dotnet new sln -n CalculatorApp

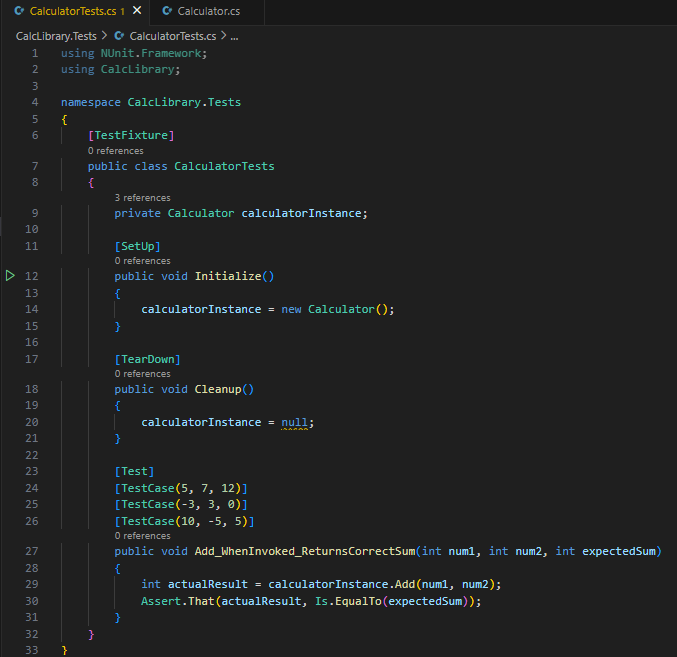
dotnet sln CalculatorApp.sln add CalcLibrary/CalcLibrary.csproj

dotnet sln CalculatorApp.sln add CalcLibrary.Tests/CalcLibrary.Tests.csproj

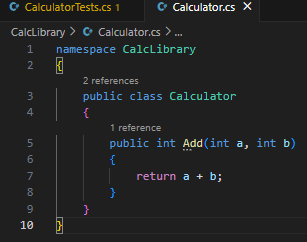
cd CalcLibrary.Tests

dotnet add reference ../CalcLibrary/CalcLibrary.csproj

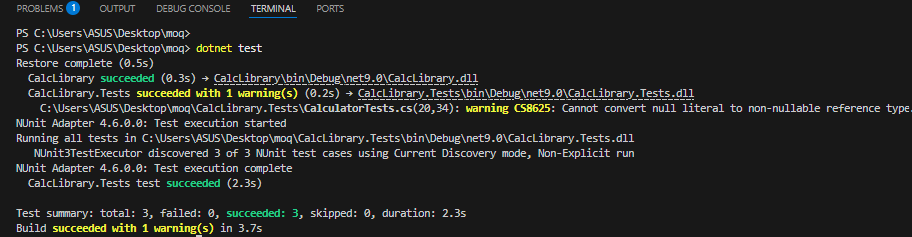
step2- create CalculatorTests inside CacLibrary.tests



Step3- create Calculator inside CalcLibrary



Output- “dotnet test” in terminal



Ex2- Write Testable Code with Moq(Moq-MailSender)

Step1-Create folder in vs code and execute below in terminal

dotnet new sln -n CustomerApp

dotnet new classlib -n CustomerCommLib

dotnet new nunit -n CustomerComm.Tests

dotnet sln CustomerApp.sln add CustomerCommLib/CustomerCommLib.csproj

dotnet sln CustomerApp.sln add CustomerComm.Tests/CustomerComm.Tests.csproj

cd CustomerComm.Tests

dotnet add reference ../CustomerCommLib/CustomerCommLib.csproj

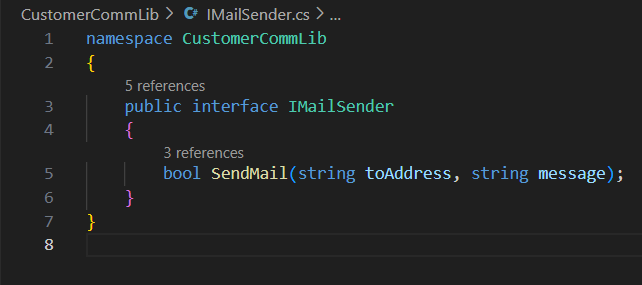
cd CustomerComm.Tests

dotnet add package Moq

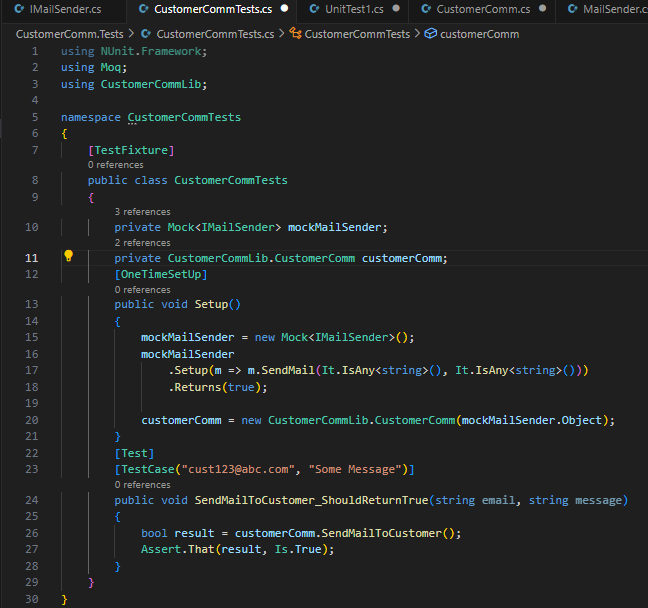
dotnet add package NUnit

dotnet add package NUnit3TestAdapter

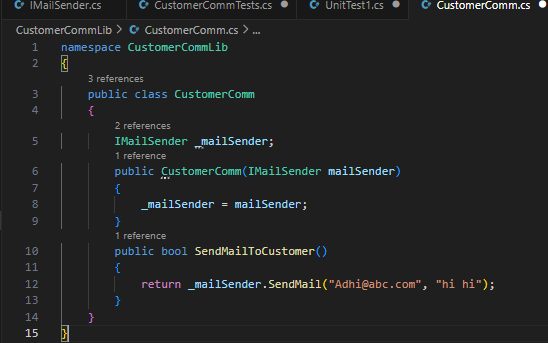
dotnet add package Microsoft.NET.Test.Sdk

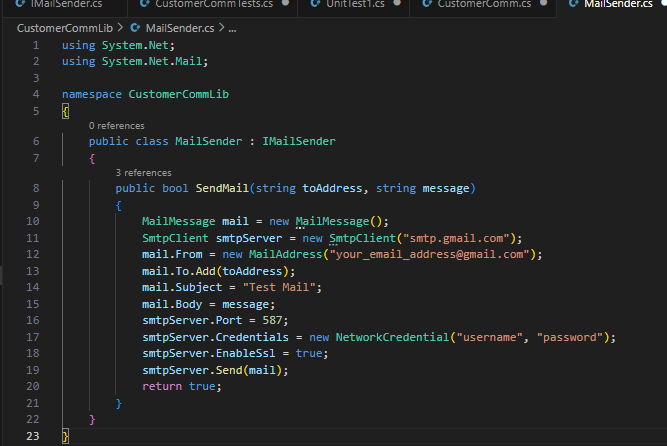
step2-create ImailSender inside CustomerCommLib

Step3-create CustomerCommTests inside CustomercommTests



Step4-create CustomerComm inside CustomerCommLib



Step5- create MailSender inside CustomerCommLib

Output- “dotnet test” in terminal

