EmployeeApp

```
using System.Data;
using System.Data.SqlClient;
     2 references private static string connectionString = "Server=localhost;Database=EmployeeDB;Trusted_Connection=True;";
         InsertEmployee("Ayush", "Raj", 3, 7500.00m, DateTime.Now);
         GetEmployeesByDepartment(3);
    1 reference public static void InsertEmployee(string firstName, string lastName, int departmentId, decimal salary, DateTime joinDate)
          using (SqlConnection conn = new SqlConnection(connectionString))
              SqlCommand cmd = new SqlCommand("sp_InsertEmployee", conn);
cmd.CommandType = CommandType.StoredProcedure;
             cmd.Parameters.AddWithValue("@firstName", firstName);
cmd.Parameters.AddWithValue("@LastName", lastName);
cmd.Parameters.AddWithValue("@DepartmentID", departmentId);
cmd.Parameters.AddWithValue("@Salary", salary);
cmd.Parameters.AddWithValue("@JoinDate", joinDate);
              conn.Close();
              1 reference public static void GetEmployeesByDepartment(int departmentId)
          using (SqlConnection conn = new SqlConnection(connectionString))
              SqlCommand cmd = new SqlCommand("sp_GetEmployees8yOepartment", conn); cmd.CommandType = CommandType.StoredProcedure;
             cmd.Parameters.AddWithValue("@DepartmentID", departmentId);
              conn.Open();
SqlDataReader reader = cmd.ExecuteReader();
              Console.WriteLine($"ID: {reader["EmployeeID"]}, Name: {reader["FirstName"]} {reader["LastName"]}, Salary: {reader["Salary"]}, Joined: {reader["JoinDate"]}");
              reader.Close();
              conn.Close();
```

OUTPUT:

```
ta.SqlClient package instead.'

✓ Employee inserted successfully.

□ Employees in Department 3:

nt package instead.'

✓ Employee inserted successfully.

□ Employees in Department 3:

□ Employees in Department 3:

□ Employees in Department 3:

□ ID: 1, Name: Ayush Raj, Salary: 7500.00, Joined: 24-06-2025 00:00:00

PS C:\Users\Lenovo\OneDrive\Desktop\Cognizant\week2\SQL\EmployeeApp>
```

```
CustomerComm.Tests > Op Custom
```

Output:

```
Passed! - Failed: 0. Passed: 1. Skipped: 0. Total: 1
```

```
{} CalcLibrary.deps.json ×
bin > Debug > net9.0 > {} CalcLibrary.deps.json > ...
         "runtimeTarget": {
           "name": ".NETCoreApp, Version=v9.0",
           "signature": ""
         "compilationOptions": {},
         "targets": {
           ".NETCoreApp,Version=v9.0": {
              "CalcLibrary/1.0.0": {
               "runtime": {
                 "CalcLibrary.dll": {}
         "libraries": {
           "CalcLibrary/1.0.0": {
             "type": "project",
             "serviceable": false,
              "sha512": ""
 23
```

```
CalcLibraryTests.csproj ×
CalcLibraryTests > MacCalcLibraryTests.csproj
       <Project Sdk="Microsoft.NET.Sdk">
         <PropertyGroup>
           <TargetFramework>net9.0</TargetFramework>
           <LangVersion>latest</LangVersion>
            <ImplicitUsings>enable</ImplicitUsings>
           <Nullable>enable</Nullable>
           <IsPackable>false</IsPackable>
         </PropertyGroup>
         <ItemGroup>
          <PackageReference Include="coverlet.collector" Version="6.0.2" />
           <PackageReference Include="Microsoft.NET.Test.Sdk" Version="17.12.0" />
           <PackageReference Include="NUnit" Version="4.2.2" />
<PackageReference Include="NUnit.Analyzers" Version="4.4.0" />
           <PackageReference Include="NUnit3TestAdapter" Version="4.6.0" />
         </ItemGroup>
           <Using Include="NUnit.Framework" />
         </ItemGroup>
```

```
CalcLibrary.GlobalUsings.g.cs X
obj > Debug > net9.0 > ♥ CalcLibrary.GlobalUsings.g.cs
       global using global::System;
   3 global using global::System.Collections.Generic;
   4 global using global::System.IO;
   5 global using global::System.Linq;
   6 global using global::System.Net.Http;
     global using global::System.Threading;
global using global::System.Threading.Tasks;
          s": (
s://api.nuget.org/v3/indox.json": {}
```

```
C Calculator.cs

1 namespace CalcLibrary

{
    public class Calculator

    {
        public int Add(int a, int b)
        {
            return a + b;
        }
        }
     }

10 }
```

Output:

```
PS C:\Users\Lenovo\OneDrive\Desktop\CalcLibraryTests> dotnet clean
>> dotnet build

>> dotnet test
>>

Build succeeded in 0.5s
Restore complete (0.4s)
CalcLibrary succeeded (0.5s) → C:\Users\Lenovo\OneDrive\Desktop\CalcLibrary\CalcLibrary\Debug\net9.0\CalcLibrary.dll
CalcLibrary succeeded (3.2s) → bin\Debug\net9.0\CalcLibraryTests.dll

Build succeeded in 7.0s
Restore complete (0.4s)
CalcLibrary succeeded (0.2s) → C:\Users\Lenovo\OneDrive\Desktop\CalcLibrary\CalcLibrary\Debug\net9.0\CalcLibrary.dll
CalcLibrary succeeded (0.2s) → C:\Users\Lenovo\OneDrive\Desktop\CalcLibrary\Debug\net9.0\CalcLibrary.dll
CalcLibraryTests succeeded (0.2s)
bin\Debug\net9.0\CalcLibraryTests.dll
NUnit Adapter 5.0.0.0: Test execution started
Running all tests in C:\Users\Lenovo\OneDrive\Desktop\CalcLibraryTests\Din\Debug\net9.0\CalcLibraryTests.dll
NUnit Adapter 5.0.0.0: Test execution complete
CalcLibraryTests test succeeded (11.1s)

Test summary: total: 1, failed: 0, succeeded: 1, skipped: 0, duration: 11.1s
Build succeeded in 12.5s

PS C:\Users\Lenovo\OneDrive\Desktop\CalcLibraryTests> []
```

Ranking

```
### Content of Programs > % Phospan > % Main

| Substitute | Substitut
```

OUTPUT:

```
Electronics
        | iPhone
                 $999
                      DenseRank: 1
Electronics
                 $799
                      DenseRank: 2
Electronics
         Camera
                 $799
                       DenseRank:
Clothing
                       DenseRank:
Clothing
         Sweater
                 $99
                       DenseRank:
Clothing
                       DenseRank: 2
Clothing
         Shirt
                 $49
                      DenseRank: 3
PS C:\Users\Lenovo\OneDrive\Desktop\Cognizant\week2\SQL\RankingExample>
```

Stored Procedure

OUTPUT:

```
PS C:\Users\Lenovo\OneDrive\Desktop\Cognizant\week2\SQL\StoredProcedure> dotnet run

Enter Department ID: 1

Total Employees in Department 1: 1

PS C:\Users\Lenovo\OneDrive\Desktop\Cognizant\week2\SQL\StoredProcedure> [
```