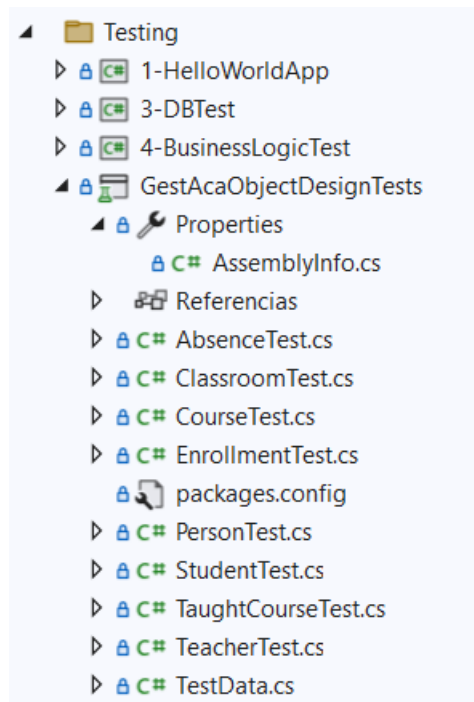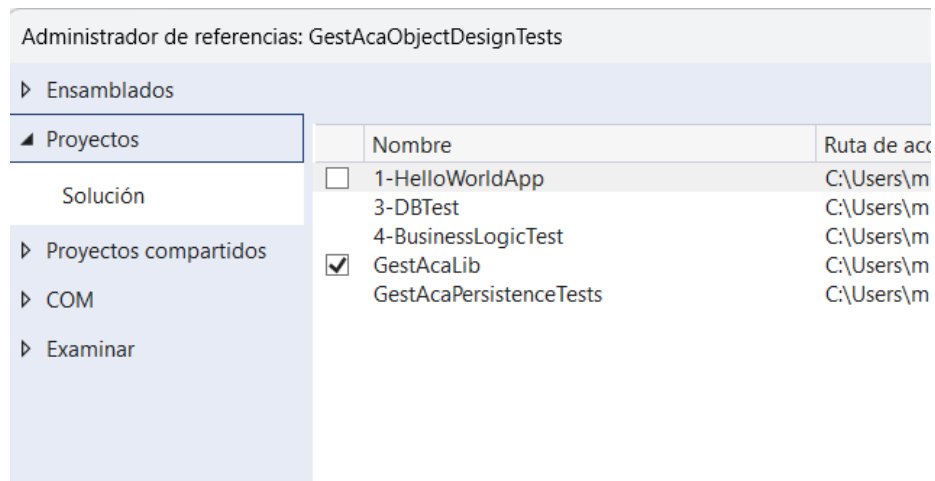# GestAca Object Design testing

To check the correctness of the definition of properties and constructors, a set of tests has been implemented and will have to pass. To include these tests, **the team manager** must follow these steps:

1. Create in the Visual Studio solution a "carpeta de soluciones" called "Testing", if this has not been done yet.
2. Unzip the .rar file with the tests in the directory where the solution is located (for instance, inside the folder GestAcaISW if the solution has been named that way).
3. Add the test Project to the solution. Inside Visual Studio, right-click over the Testing folder and select Agregar > Proyecto Existente, choosing the file "GestAcaObjectDesignTests.csproj that can be found inside "GestAcaObjectDesignTests" folder.
4.

5. In Visual Studio, in the Project inside Testing, right-click on Referencias and add the main project (GestAcaLib).

Administrador de referencias: GestAcaObjectDesignTests

▷ Ensamblados

▲ Proyectos

    Solución

▷ Proyectos compartidos

▷ COM

▷ Examinar

	Nombre	Ruta de acc
☐	1-HelloWorldApp	C:\Users\m
	3-DBTest	C:\Users\m
	4-BusinessLogicTest	C:\Users\m
☑	GestAcaLib	C:\Users\m
	GestAcaPersistenceTests	C:\Users\m

6. Commit and push to the remote repository.
7. To execute the tests, any team member has to right-click over GestAcaObjectDesignTests and select the option "Ejecutar Pruebas". If the tests pass the result will be the following one:

Explorador de pruebas

🧪 25 ✅ 25 ❌ 0   Buscar (Ctrl+I)

Listo   ⚠ 1 advertenci ❌ 0 errores

Prueba	Duración	Rasgos	Mensaje de error		Ejecutar Depu
▲ ✅ GestAcaObjectDesignTests (25)	51 ms				
▲ ✅ GestAcaObjectDesignTests (25)	51 ms				
▷ ✅ AbsenceTest (1)	< 1 ms				
▷ ✅ ClassroomTest (3)	< 1 ms				
▷ ✅ CourseTest (3)	< 1 ms				
▷ ✅ EnrollmentTest (3)	51 ms				
▷ ✅ PersonTest (4)	< 1 ms				
▷ ✅ StudentTest (4)	< 1 ms				
▷ ✅ TaughtCourseTest (3)	< 1 ms				
▷ ✅ TeacherTest (4)	< 1 ms				
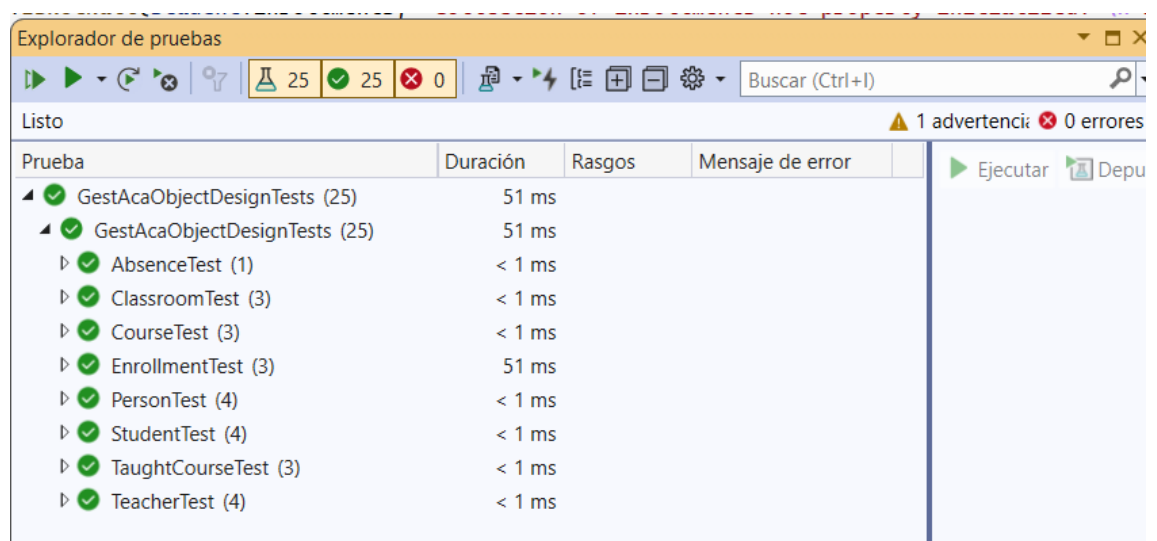
If there are mistakes in your implementation, you will see something like this instead:

Explorador de pruebas

Serie de pruebas finalizada: 25 pruebas (Superadas: 21; Con errores: 4; Omitidas: 0) ejecutadas en 572 ms

⚠ 0 advertencia ⊗ 0 errores

🧪 30   ✓ 21   ⊗ 4   ① 5

Buscar (Ctrl+I)

Prueba	Duración	Rasgos	Mensaje de error
▷ ✓ AbsenceTest (1)	< 1 ms		
▲ ⊗ ClassroomTest (3)	23 ms		
⊗ ConstructorInitializesProps	22 ms		Error de Assert.IsNotNull. Collection of Taught Cours...
⊗ NoParamsConstructorInitializes...	1 ms		Error de Assert.IsNotNull. Collection of TaughtCours...
✓ VirtualPropertiesDefined	< 1 ms		
▷ ✓ CourseTest (3)	< 1 ms		
▲ ⊗ EnrollmentTest (3)	185 ms		
⊗ ConstructorInitializesProps	185 ms		Excepción método de prueba GestAcaObjectDesign...
✓ NoParamsConstructorInitializes...	< 1 ms		
✓ VirtualPropertiesDefined	< 1 ms		
▷ ✓ PersonTest (4)	< 1 ms		
▲ ⊗ StudentTest (4)	< 1 ms		
⊗ ConstructorInitializesProps	< 1 ms		Error de Assert.IsNotNull. Collection of Enrollments...
✓ IsSubClass	< 1 ms		
✓ NoParamsConstructorInitializes...	< 1 ms		

▶ Ejecutar 🅰 Depurar

Resumen de los detalles de la prueba

⊗ ConstructorInitializesProps

📄 Origen: **ClassroomTest.cs** línea 40

🕐 Duración: **22 ms**

Mensaje:
  Error de Assert.IsNotNull. Colle
    Patch the problem adding: :thi

Seguimiento de la pila:
  ClassroomTest.ConstructorInitial