Questions:

Classes:

* Public class (accessible to outer world or to next level up (which one) = namespace); any namespace
* Sealed class (accessible by no other class) – when would it be used? Inheritance. No one else can extend sealed.
* Internal class (accessible only in same project – namespace? – or assembly). Not able to test unless mocked. What is meant by mocked in this instance?
* Protected (accessible within same class or class inherited by class). Used to protect data??
* Accessibility – public, private, internal – who can visit me?

Interface:

* Abstract class – empty methods; Defines basic skeleton, can be extended.
* Cannot be instantiated; Signature
* Public properties, methods;
* I could use the existing interface in Person.cs (so that name and surname can be tested)

Abstract class cannot be instantiated.

Concrete class implemented differently - implement signature of interface

Stub:

* Used for testing purposes;
* Microsoft Fakes;
* Delegates responsibility of one part of code – i.e. ReadLine & WriteLine;
* Can be used to implement interfaces & abstract methods;
* “In general, we recommend that you use stub types to isolate from dependencies within your codebase. You can do this by hiding the components behind interfaces.” (<https://docs.microsoft.com/en-us/visualstudio/test/isolating-code-under-test-with-microsoft-fakes?view=vs-2019>)
* Shims other Microsoft Fakes

What level of validation should be used to check if a name/surname has valid input (i.e. Can include letters, hyphens, spaces, single quote (such as O’Brien); no numbers or other special characters)? Defined by business requirements. Clarified by BA.

Domain Driven Development – DDD – know context

Regular expression – used for validation

Goals for next week:

* Read Ch 3 Clean Code
* Refactor Person.cs (so it can be tested) – Can use same interface?
* Test class for Person.cs
* Research regular expression
* Access Modifiers – small projects
* Interface and Abstract
* What is the next stage? What do I need to know before I can go to the next stage?