

C# BASICS

Training Assignments

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RECORD OF CHANGES

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CODE: NPL.M.A008

TYPE: MEDIUM

LOC: 190

DURATION: 180 MINUTES

Assignment 8: Named and Optional Arguments

Objectives:

- » Understand and practice Optional Arguments and Named Arguments.
- » Understand and practice with Extension Method.
- » Practice code in Visual Studio.
- » Follow coding convention.

Business needs:

» TBD

Prerequisites:

- » Working environment: Visual Studio 2013 or higher.Practice code in Visual Studio
- » Each exercise is one project inside 1 solution.

Technologies:

The product implements one or more technology:

- » Optional Arguments
- » Named Arguments
- » Extension method
- » C# basic

<u>10:</u>

» Console windows

Technical Requirements:

- » Write on console application, comply with Fsoft coding conventions
- » Solution name must be NPL.M.A008.
- » Must create a project called NPL.M.A008.Exercise to complete the following exercises.

1. Exercise 1:

Build Student class with the following properties:

Name: string
Class: string.
Gender: string.
Relationship: string.
EntryDate: Date.

Age: int.Address: string.

Mark: decimal.Grade: string.

2. Exercise 2:

Build the constructor using the Optional Arguments as follows:

- Relationship: Default value is "Single"

Mark: Default value is 0.Grade: Default value is F

3. Exercise 3:

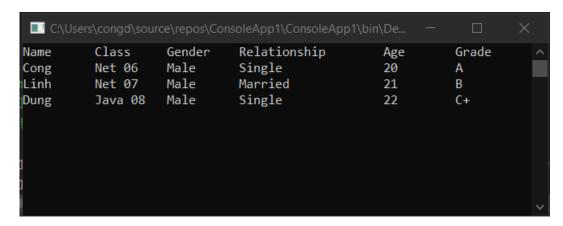
The build method uses the Optional Arguments as follows:

Graduate method construction has parameter of gradePoint, default value is 0. Set value for Grade according to the table below:

Grades	Grade Points	Numerical Scale of Grades
A	4.0	85 - 100%
A-	3.7	80 – 84%
B+	3-3	75 – 79%
В	3.0	70 - 74%
B-	2.7	65 – 69%
C+	2.3	60 – 64%
С	2.0	55 - 59%
D	1.0	50 - 54%
F (Fail)	0	0 – 49%

4. Exercise 4:

Implement a ToString(name, class, gender, relationship, age, grade) method. Returns the formatted string of information based on the passed parameter.



5. Exercise 5:

Perform Student object initialization, using Optional Arguments, Named Arguments.

Implement the Graduate method call in both cases: there is transmission parameter, no parameter transmission.

The implementation calls the ToString method in both cases: there is a transmission parameter, no parameter transmission.

Commenting on the benefits of using Optional Arguments, Named Arguments.

Note the rules when using Optional Arguments, Named Arguments.