

***C# BASICS***

**Training Assignments**

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| Document Code | 25e-BM/HR/HDCV/FSOFT |
| Version | 1.1 |
| Effective Date | 20/11/2012 |

**Hanoi, 06/2019**

RECORD OF CHANGES

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| No | Effective Date | Change Description | Reason | Reviewer | Approver |
|  | 01/Oct/2018 | Create new | Draft |  |  |
|  | 01/Jun/2019 | Update template | Fsoft template | DieuNT1 |  |
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|  | **CODE: Net.M.A009**  **TYPE: MEDIUM**  **LOC: 190**  **DURATION: 180 MINUTES** |

# Day 2: Assignment 9: Basic Project Practice

**Objectives:**

* Understand and practice basic of C#.
* Practice code in Visual Studio
* Follow coding convention.

**Business needs:**

* TBD

**Working requirements:**

* Working environment: Visual Studio 2013 or higher.Practice code in Visual Studio
* Each exercise is one project inside 1 solution.
* Delivery: Source code, deployment and testing, reviewing evident packaged in a compress archive.

**Technologies:**

The product implements one or more technology:

* C# basic
* Control of Flows

**IO:**

* Console windows

1. Exercise 1

Write code to format string as name. Each name is a string that meets conditions:

* Each word starts with upper case character, all following character(s) is lower case.
* Words are separated by one space only.

Example: “ Nguyen van tRan long “ should be format to: “Nguyen Van Tran Long”

Complete your code inside **Net.M.A009.Exercise1.**

Run and check the result

**Estimated time:** 60 mins

1. Exercise 2

An email address is composed by 2 parts the local part, and the domain part.

The local part can contain:

* any alphanumeric character: a-zA-Z0-9
* punctuation: "(),:;<>@[\]
* special characters: !#$%&'\*+-/=?^\_{|}~
* a dot ., if it’s not the first or last character. Also, it can’t be repeated

The domain part can contain:

* any alphanumeric character: a-zA-Z0-9
* the hyphen -, if it’s not the first or last character. It can be repeated

Write code to validate email with above conditions.

Complete your code inside **Net.M.A009.Exercise2.**

Run and check the result

**Estimated time**: 60 mins

1. Exercise 3

Write code to sort list of users.

Application allows user to input list of users as Full Name (First Name and Last Name). You need to get last name of users then sort them in alphabet.

Example:

Input: Tony Stark, Steve Rogers, Bruce Banner, Thor, Natasha Romanoff, Clint Barton, James Rhodes, Scott Lang, Doctor Strange, Carol Danvers, Peter Parker

Output: Bruce Banner, Clint Barton, Carol Danvers, Scott Lang, Peter Parker, James Rhodes, Steve Rogers, Natasha Romanoff, Tony Stark, Doctor Strange, Thor

Complete your code inside **Net.M.A009.Exercise3**.

Update all comments in the project

Run and check the result

**Estimated time**: 60 mins