C# BASICS

Training Assignments

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RECORD OF CHANGES

No	Effective Date	Change Description	Reason	Reviewer	Approver
1.	01/Oct/2018	Create new	Draft		
2.	01/Jun/2019	Update template	Fsoft template	DieuNT1	

Contents

CODE:	**NPL.M.A001**
TYPE:	**MEDIUM**
LOC:	
DURATION:	**120 MINUTES**

Assignment 1: Basic Project

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.

Product architecture:

- N/A

Technologies:

The product implements one or more technology:

- C# basic
- Control of Flows

IO:

- Console windows

Technical Requirements:

- Solution name must be **NPL.M.A001.**
- Must create projects corresponding to each exercise:

  NPL.M.A001.Exercise1.

  NPL.M.A001.Exercise2.

  NPL.M.A001.Exercise3.

  NPL.M.A001.Exercise4.

1. Exercise 1

Write code to evaluate of a polynomial:

$y = 2x^3 – 6x^2 + 2x -1$

Example: at x = 1, y = -3

Complete your code inside **NPL.M.A001.Exercise1.**

Run and check the result

Estimated time: 30 mins

2. Exercise 2

Write code to convert number from base 10 to base 2 (natural number to binary number).

Example: 13 -> 1101

Complete your code in **ConvertToBinary()** method inside **NPL.M.A001.Exercise2**.

Run and check the result

Estimated time: 30 mins

3. Exercise 3

Write code to print list n number of Fibonacci. Each number is printed in 1 line.

Example: input number 5

1

1

2

3

5

Complete your code in **PrintFibonacci()** method inside **NPL.M.A001.Exercise3**.

Update all comments in the project

Run and check the result

Estimated time: 30 mins

4. Exercise 4

Write code to check a positive integer is prime number or not.

Example:

5 is prime number

6 is NOT prime number

7 is prime number

Complete your code in **CheckPrimeNumber()** method inside **NPL.M.A001.Exercise4**.

Update all comments in the project

Run and check the result

Estimated time: 30 mins