



Republic of the Philippines  
**Department of Education**  
REGION III

**SCHOOLS DIVISION OFFICE OF NUEVA ECIJIA**

**SPECIAL PROGRAM IN ICT 10**  
**ADVANCED PROGRAMMING**

*First Quarter, Week 1*

Name of Learner: \_\_\_\_\_ Date: \_\_\_\_\_

Grade Level /Section: \_\_\_\_\_

Environment Setup (VB.Net Programming)

**BACKGROUND INFORMATION FOR LEARNERS**

As the world battles with Covid-19, people are obliged to follow health protocols, and education in the third world countries has been put to its new heights- online learning. Because of these phenomenon, educational application, software and sites are greatly needed to ensure that learning will take place. Advanced Programming will help students to understand and enhance their skills and competencies in programming and can be able to innovate and contribute to the fast-changing society.

**THE .NET FRAMEWORK**

The .Net framework is a revolutionary platform that helps you to write the following types of applications:

- Windows applications
- Web applications
- Web services

The .Net framework applications are multi-platform applications. The framework has been designed in such a way that it can be used from any of the following languages: Visual Basic, C#, C++, Jscript, and COBOL, etc.

All these languages can access the framework as well as communicate with each other.

The .Net framework consists of an enormous library of codes used by the client languages like VB.Net. These languages use object-oriented methodology.

Following are some of the components of the .Net framework –

- Common Language Runtime (CLR)
- The .Net Framework Class Library
- Common Language Specification
- Common Type System
- Metadata and Assemblies
- Windows Forms
- ASP.Net and ASP.Net AJAX
- ADO.Net
- Windows Workflow Foundation (WF)
- Windows Presentation Foundation
- Windows Communication Foundation (WCF)
- LINQ

## INTEGRATED DEVELOPMENT ENVIRONMENT (IDE) FOR VB.NET

Microsoft provides the following development tools for VB.Net programming:

- Visual Studio 2010 (VS)
- Visual Basic 2010 Express (VBE)
- Visual Web Developer

Using these tools, you can write all kinds of VB.Net programs from simple command-line applications to more complex applications. Visual Basic Express and Visual Web Developer Express edition are trimmed down versions of Visual Studio and has the same look and feel. They retain most features of Visual Studio.

Source: <https://hclcdcchangdigarh.wordpress.com>

## LEARNING COMPETENCY

Recognize the tools available for creating applications

## ACTIVITIES

### ACTIVITY 1

Directions: Identify the description and special features of the following development tools for VB.Net programming.

Development Tools	Description	Special Features
Visual Studio 2010 (VS)		
Visual Basic 2010 Express (VBE)		
Visual Web Developer		

1. What is the essentiality of the development tools for VB.Net programming?

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2. Why is it important for students to learn such tools in the New Normal Education?

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## ACTIVITY 2

Directions:

1. Download MS Visual Basic Studio 2008. <http://bit.ly/MSVisualStudio2008>
2. Install the Visual basic 8 application by following the step by step procedure in this website.  
<https://www.youtube.com/watch?v=VX7GsrjVN9o>

## ACTIVITY 3

Directions\$ Conduct an interview to a person known to you who has IT (Programming)-related job.

Guidelines:

1. Use mobile or online communication. No face to face.
2. Ask further about the uses of the different areas and tools for VB.Net programming that you have studied.

## REFLECTION

Explain the importance of tools and areas in creating application?

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## REFERENCES

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<https://visual-basic-express.soft32.com/old-version/386190/2010.express/>

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