Pemrograman Visual

Pertemuan 1

Gasal 2019/2020

Pemrograman Visual

- Menghubungkan object-object (berupa icon atau gambar) dengan cara membuat, menunjuk, dan mengklik object tersebut.
- Terdapat konsep event-driven, pengeksekusian program berdasarkan event (kejadian)

Jenis-Jenis Pemrograman Visual

- Visual C++
- Delphi
- Visual Basic
- Visual Basic .NET
- Borland Killix
- Java

Sejarah VB.Net

- Versi 1 (VS 2002 / VB7.0) Framework V 1.0
- Versi 2 (VS 2003 / VB7.1) Framework V 1.1
- Versi 3 (VS 2005 / VB8.0) Framework V.2.0
- Versi 4 (VS 2008 / VB9.0) Framework V.3.5
- Versi 5 (VS 2010 / VB 10.0) Framework V.4.0
- Versi 6 (VS 2012 / VB 11.0) Framework V.4.5
- Versi 7 (VS 2013 / VB 12.0) Framework V.4.5.1
- Versi 8 (VS 2015 / VB 14.0) Framework V.4.6.2
- Versi 9 (VS 2017 / VB 15.0) Framework V.4.7.1
- Versi 10 (VS 2019 / VB 16.0) Framework V.4.8

Catatan: Backward Incompatible

Contoh: Membuat di VS 2008, maka tidak bisa dibuka dibawah versi VS tersebut

.NET FRAMEWORK

 Merupakan komponen software bagian dari sistem operasi Microsoft Windows yang didalamnya terdapat banyak library program solusi sudah jadi sehingga dapat digunakan. Biasanya .NET Framework diguanakn untuk membuat aplikasi-aplikasi di platform Windows.

INSTALASI VISUAL STUDIO 2008

Instalasi Visual Studio 2008 (Step 1 dan 2)

- 0

Exit

枵 Visual Studio 2008 Setup





Install Visual Studio 2008 Install Visual Studio 2008 features and required components.

msdn

Install Product Documentation Install the MSDN Library, which includes Help for Visual Studio.



Check for Service Releases

Check for the latest Service Releases to ensure optimal functionality of Visual Studio 2008.

View ReadMe

Microsoft Visual Studio 2008

Setup is copying required resources to your temp directory. Copying file 19 of 71.

Copying setup file: greenRule.gif

2

🌆 Microsoft Visual Studio 2008

Visual Studio 2008 Setup

Welcome to the Microsoft Visual Studio 2008 installation wizard.

This wizard guides you through installing this program and all required components.

Help Improve Setup

You can submit anonymous information about your Visual Studio setup experiences to Microsoft. To participate, check the box below.

Yes, send information about my setup experiences to Microsoft Corporation.

(i) For more information, click <u>Data Collection Policy</u>.

Setup is loading installation components.



< Previous

Next >

Cancel

🌆 Microsoft Visual Studio 2008



Welcome to the Microsoft Visual Studio 2008 installation wizard.

This wizard guides you through installing this program and all required components.

Help Improve Setup

You can submit anonymous information about your Visual Studio setup experiences to Microsoft. To participate, check the box below.

Yes, send information about my setup experiences to Microsoft Corporation.

I) For more information, click <u>Data Collection Policy</u>.



< Previous

Next >

Cancel

Loading completed. Click Next to continue.

🌆 Microsoft Visual Studio 2008 Setup - Start Page



To install, you must accept the End User License Agreement and enter your product key.

Press the Page Down key to see more text.
● I have read and accept the license terms.
○ I <u>d</u> o not accept the license terms.
Product <u>k</u> ey: XMQ2Y 4T3V6 XJ48Y D3K2V 6C4WT
Na <u>m</u> e: mike spoon
< Previous Next > Cancel

HAL: 10

~

Print

🌆 Microsoft Visual Studio 2008 Setup - Options Page



Select features to install:

Oefault

Installs the recommended features for the product

🔘 Full

Installs all features for the product

🔘 Custom

Select features to include and exclude from the product

Feature description:

This option installs the most commonly used features of the product.

Product install path:

C:\Program Files\Microsoft Visual Studio 9.0\

Browse...

Disk space requirements:

Volume	Disk Size	Available	Required	Remaining
C:	146.5 GB	130.7 GB	4.0 GB	126.8 GB
		(<u>ر الم</u>	

🌆 Microsoft Visual Studio 2008 Setup - Options Page



Select features to install:

🔘 Default

Installs the recommended features for the product

Full

Installs all features for the product

🔘 Custom

Select features to include and exclude from the product

Feature description:

This option installs all of the features available for the product.

Product install path:

C:\Program Files\Microsoft Visual Studio 9.0\

Browse...

Disk space requirements:

C: 146.5 GB 130.7 GB 4.3 GB 126.4

🌃 Microsoft Visual Studio 2008 Setup - Install Page

Visual Studio 2008 Setup

Installing Components:

- Microsoft .NET Framework 3.5
- Microsoft Document Explorer 2008
- Microsoft Visual Studio Web Authoring Component
- Microsoft Visual Studio 2008
- Microsoft .NET Compact Framework 2.0 SP2
- Microsoft .NET Compact Framework 3.5
- Microsoft Visual Studio Tools for the Microsoft Office system (version 3.0 Runtime)
- Microsoft Visual Studio 2005 Tools for the 2007 Microsoft Office System Runtime
- Microsoft SQL Server Compact 3.5
- Microsoft SQL Server Compact 3.5 Design Tools
- Microsoft SQL Server Compact 3.5 For Devices
- Windows Mobile 5.0 SDK R2 for Pocket

Current component is installing.

Handle data more smoothly

- Simplified access to XML, relational and object data
- Innovative new programming language features, such as Language Integrated Query (LINQ)
- Local Data Cache helps developers easily handle occasionally connected clients

Next >

Cancel

< Previous

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🕂 Visual Studio 2008 Setup

Visual Studio 2008 Setup



Change or Remove Visual Studio 2008

Repair, reinstall, or install additional Visual Studio 2008 features. You can also uninstall Visual Studio 2008.



Install Product Documentation

Install the MSDN Library, which includes Help for Visual Studio.



Check for Service Releases

Check for the latest Service Releases to ensure optimal functionality of Visual Studio 2008.

View ReadMe

Exit

MENJALANKAN VISUAL STUDIO 2008

Menjalankan Aplikasi Visual Studio 2008



Menjalankan Aplikasi Visual Studio 2008

🐼 Start Page - Microsoft Visual Studio	
File Edit View Tools Window Help	
	🗸 🗙 Solution Explorer 🗸 4 🛪
Visual Studio 2008	
Recent Projects Get News from Microsoft	
Download the latest information for developers to the Start Page	
tricks, and upcoming events. This live feed also includes information about the Microsoft Priv previews, and Beta releases of Microsoft products and technologies. To view the Microsoft Priv Tooh/Options/Environment/Help/Online and then click Read the privacy statement.	vacy Policy, go to File Edit View Tools Window Community Help
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Create: Project	Open 🕨 🍓 Web Site
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	Save Selected Items Ctrl+S
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Ready	Save All Ctrl+Shift+S The current news
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	Recent Projects 🕒 eb Site
	Exit

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MEMBUAT PROJECT BARU DI VISUAL STUDIO 2008

Membuat Project Baru



- 4. Nama Project isikan dengan ProjectPertama
- 5. Lokasi Penyimpanan Project
- 6. Nama Solution (Bisa Berbeda dengan Nama Project)

Membuat Project Baru

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IDE (INTERFACE DEVELOPMENT ENVIRONTMENT)

 IDE (Interface Development Environment) merupakan sebutan untuk lingkungan pengembangan dari Visual Basic .NET atau area kerja Visual Basic .NET.



• A: Title Bar

Judul Jendela (Nama Solution)

B: Menu Bar

(Kumpulan Perintah-Perintah)

C: Toolbar

(Sekumpulan tombol yang mewakili suatu perintah tertentu)



• D: Toolbox

Jendela dimana kontrol atau kontrol user interface ditempatkan

E: Form Window

Merupakan pusat pengembangan Visual Studio.NET dimana kontrol (obyek) dari Toolbox ditempatkan.



• F: Solution Explorer

Jendela yang menampilkan daftar semua form, modul, class, dan file lainnya untuk membuat aplikasi.

• G: Properties

Digunakan pada mode desain yang bertujuan untuk mengatur suatu nilai pada kontrol (obyek).

MENAMBAHKAN CONTROL / OBJECT

Menambahkan Kontrol/Object Ke Form Window

🏶 ProjectPertama - Microsoft Visual Studio	
File Edit View Project Build Debug Data Format Tools Window Community H	Help
1. "你。" "你,你这些你。" "你?" "你?" "你?" "你?" "你?" "你?" "你?" "你?	된 '김 명' 별 '왕·,
Toolbox • 4 × Form1.vb [Design]* Start Page	🚽 🗙 🔰 Solution Explorer - Solution ' 🚽 🦊 🗙
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🖻 Common Cont	Solution 'ProjectPertama' (1 project'
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ab Button	My Project
CheckBox	🔤 Form1.vb
CheckedListBox	
ComboBox Total ComboBox	
DateTimePicker	
A LinkLabel	
E ListBox	
232 ListView	
#- MaskedTextBox	Properties 🗸 🗸 X
Month Calendar	Form1 System.Windows.Forms.Form -
	ShowInTaskbar True
	E Size 300; 300
	SizeGripStyle Auto
RichTextBox	StartPosition WindowsDefaultL
abl TextBox	Tag
Na ToolTip	Text Form1 🔷
Server X Toolbox	
	└── 111, 100

Tambahkan kontrol (obyek) Label ke Form1 dengan klik dua kali pada obyek label atau dengan mengklik dan menggeser (Drag and Drop) ke Form1

SETTING PROPERTIES

Setting Properties Kontrol / Object

🖶 Form1		Solution 'Proj Solution 'Proj Project My P	jectPertama' (1 pr Pertama roject 11.vb	rojec
Label		Solution Explor Properties	er 💽 Class View 🗸 1	l X
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		∃ Size	39; 13	^
		TabIndex	0	
		Tag		
		Text	Halo Dunia	~
		TextAkyn		
		UseCompatible	i False	
			Twee	
		UseMnemonic	True	

Klik 1 kali pada Label1 kemudian ubah properties Text pada jendela Properties. Dari Label1 menjadi Halo Dunia.

Ganti Properties Text Pada Form



Klik satu kali pada area di Form1 kemudian ubah properties Text pada Form1 dari Form1 menjadi Selamat Datang ke VB.NET

MENJALANKAN PROGRAM (RUNNING / DEBUGGING)

Menjalankan Program / Debugging



Jalankan Window Form dengan mengklik tombol Start Debugging berlogo anak panah kanan berwarna hijau atau dengan menekan tombol F5 pada keyboard.

Hasil Running / Debugging Program

to the fill of the star 10			Solution Evolution - So
Form1	Form1		Solution 'ProjectPertama ProjectPertama My Project Form1.vb
65 (Jak	Halo Dunia	r d Window	<

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STOP / TUTUP PROGRAM (STOP RUNNING / DEBUGGING)

Stop/Tutup Program Running / Debugging



Tutup kembali jendela Form1 yang sudah dijalankan dengan mengklik tanda silang pada pojok kanan atas di Form1.

MENAMBAH FORM BARU

Menambahkan Form

	👻 🗙 🔁 Solutio	n Expl	orer - ProjectP 👻 4 🗙						
		🔓 🗗 🛃 🖧							
	5	Solution 'ProjectPertama'							
		Pro	pjectPertama						
			Build						
			Rebuild						
			Clean						
			Publish						
3	New Item	<	Add						
:::	Existing Item		Add Reference						
	New Folder	7	Add Web Reference						
	Windows Form	×.	View Class Diagram						
	User Control ゆ		Set as StartUp Project						
Ð	Component		Debug 🕨						
	Module	¥	Cut						
÷3	Class		Paste						

 Klik kanan Pada Project Name di Solution Explorer
 Pilih Add
 Pilih Windows Form...

Menambahkan Form

Visual Studio installed template	25		
 Windows Form MDI Parent Form Splash Screen Interface DataSet Crystal Report Inherited User Control Resources File Class Diagram XSLT File Bitmap File 	About Box Class Component Class Component Class SQL Database User Control Custom Control Settings File XML File Text File Cursor File	Explorer Form Login Form Module COM Class Report Inherited Form Web Custom Control Code File XML Schema MTML Page Icon File	
Application Configuration File Windows Service	Transactional Component		
A blank Windows Form			
Jame: Form2.vb			1

Menambahkan Form

Solution Explorer - Solution 'P 👻 🖡 🗙
Solution 'ProjectPertama' (1 project) ProjectPertama My Project Form1.vb Form2.vb Baru
Solution Explorer

Pada jendela **Solution Explorer** akan tampil Form2 serta akan tampil Form Window 2 (Form2)

Question Part 1

- 1. Ubah **properties Text** Form2 dari Form2 menjadi Merubah Warna Label.
- Tambahkan Object / Control Label, Kemudian Ubah Properties Text nya dari Label1 Menjadi Klik Untuk Berubah

INTELLISENSE

Intellisense

- Intellisense merupakan fitur pada kode editor yang menampilkan informasi yang diperlukan. Keberadaan fasilitias intellisense akan menyebabkan penulisan kode-kode program menjadi lebih mudah dan cepat.
- Intellisense akan aktif hanya pada obyek yang berada pada form (termasuk form itu sendiri). Cara mengaktifkannya adalah dengan menuliskan obyek yang bersangkutan dan diikut oleh tanda titik (.), secara otomatis akan ditampilkan daftar members (properti, metode, event, dan daftar argumen) yang ada dalam menu drop-down.

Fungsi Intellisense

Menampilkan informasi command atau fungsi.

Private Sub Form1_MouseDoubleClick(ByVal sender As MsgBox(

End MsgBox (Prompt As Object, [Buttons As Microsoft.VisualBasic.MsgBoxStyle = Microsoft.VisualBasic. MsgBoxStyle.DefaultButton1], [Title As Object = Nothing]) As Microsoft.VisualBasic.MsgBoxResult Prompt:

C1 Required. String expression displayed as the message in the dialog box. The maximum length of Prompt is approximately 1024 characters, depending on the width of the characters used. If Prompt consists of more than one line, you can separate the lines using a carriage return character (Chr(13)), a line feed character (Chr(10)), or a carriage return/linefeed character combination (Chr(13) & Chr(10)) between each line.

Menampilkan informasi parameter

Private Sub Form1_MouseDoubleClick(ByVal sender As MsgBox("PESAN",

End MsgBox (Prompt As Object, [Buttons As Microsoft.VisualBasic.MsgBoxStyle = Microsoft. VisualBasic.MsgBoxStyle.DefaultButton1], [Title As Object = Nothing]) As Microsoft.VisualBasic.MsgBoxResult

C1 Buttons:

Optional. Numeric expression that is the sum of values specifying the number and type of buttons to display, the icon style to use, the identity of the default button, and the modality of the message box. If you omit Buttons, the default value is zero.

Melengkapi penulisan kata
 CTRL+SpaceBar



MEMBUAT PROGRAM VISUAL BASIC .NET

Program Visual Basic .NET



Klik dua kali pada Text "Klik Untuk Berubah"

Private Sub Label1_Click(ByVal sender As Sys

End Sub

Tampil Area Coding Private Sub

Program Diketikkan Diantara Private Sub End Sub

End Sub

Program Visual Basic .NET

Private Sub Label1_Click(ByVal sender As Sys

Label1.BackColor = Color.Blue Label1.ForeColor = Color.White

End Sub

Ketikkan Perintah Dalam Kotak Merah Ingat!! Antara Private Sub End Sub

Question Part 2

Jalankan Kembali Project nya, Apa yang terjadi?

STARTUP FORM

Mengganti Startup Form



Klik dua kali My Project pada jendela Solution Explorer.

Mengganti Startup Form

ProjectPertam	na Start Page Form2.vb Form2.vb [Design] Form1.vb [Design]	• X
Application	Configuration: N/A Platform: N/A	
Compile		
Debug	Assembly name: Root namespace:	<u>^</u>
Dobig	ProjectPertama ProjectPertama	
References	Application type: Icon:	
Resources	Windows Application (Default Icon)	
Settings	Startup form:	
Doctings	Form1 Assembly Information	
Signing	Form1	
Security	Porniz	
Docarsy	C Windows application framework properties	
Publish	Enable XP visual styles	
	Make single instance application	
	Save My.Settings on Shutdown	
	Authentication mode:	
	Windows 💌	~

Pada **Startup Form** Ubah pilihan dari Form1 menjadi Form2 (Untuk menjalankan Form2)

Question Part 3

- Jalankan Kembali Project nya, Apa yang terjadi?
- Kemudian Klik "Klik Untuk Berubah", apa yang terjadi?

MENYIMPAN PROJECT

Menyimpan Project

ATAU



- 1. Klik Menu File
- 2. Klik Menu Save All



Icon Kumpulan Disket

KELUAR VISUAL STUDIO 2008

Keluar dari Project



- 1. Klik Menu File
- 2. Klik Exit

MEMBUKA PROJECT

Membuka Project Kembali

File	View Tools Windo	w Co	ommunity Help
	New	13	9-0-3
	Open (2)	•	Project/Solution Ctrl+Shift+O
	Close	1	Web Site
đ	Close Solution	1	File Ctrl+O
	Save Selected Items Ctrl+5		Convert
	Save Selected Items As	0.0	
9	Save All Ctrl+Shift+S		Recent Projects
	Export Template		WindowsApplication1
	Source Control	•	
0	Page Setup		
4	Print Ctrl+P		

- 1. Klik Menu File
- 2. Klik Open
- 3. Klik Project/Solution



Klik Icon Folder

Membuka Project Kembali

Open File						? 🛛
Look in:	🛅 Windows4	Application1) - 🗖	Q X 🖆	To	iols +
Desktop	WindowsAp	plication1 plication1.sln plication1.suo				
My Projects						
My Computer						
	- 1					3
	File name:				~	Open 🔻
	Files of type:	All Files (*.*)			*	Cancel

- Cari Lokasi
 Penyimpanan
 Folder
 Project/Solution
- 2. Dilanjutkan dengan mencari File yang bertipe .sln atau .vbproj, Kemudan Klik dua Kali 3. Klik Tombol Open

~ Selesai ~