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## SWIT: 11 Text file

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#### Learning Outcome

- Understand the text file usage in VB.
- Implement open/save text file in the application.

### Topic

- Write a text message to a text file
- Open text file and display
- Menu bar component
- Open dialog component
- Dev: Write and open text data
- Quiz 10

American Standard Code for Information Interchange: ASCII-code



#### Sequential Access Files

A data file in computer keeps a sequential data. A file having beginning and ending point, when user access contents that is read each point by follow in sequence.

#### Begin ntitled - Notepad $\times$ le Edit Format View Help Bali is an island and province of Indonesia. The province includes the island of Bali and a few smaller neighbouring islands, notably Nusa Penida, Nusa Lembongan, and Nusa Ceningan. It is located at the westernmost end of the Lesser Sunda Islands, between Java to the west and Lombok to the east. Its capital of Denpasar is located at the southern part of the island. With a population of 3,890,757 in the 2010 census, [4] and 4,225,000 as of January 2014, [5] the island is home to most of Indonesia's Hindu minority. According to the 2010 Census, 83.5% of Bali's population adhered to Balinese Hinduism, [3] followed by 13.4% Muslim, Christianity at 2.5%, and Buddhism 0.5%.[6]



End

#### Writing data to a sequential access file

Writing data to file has 4 parts

1) Create a file variable

Dim fileVar as IO.StreamWriter

2) Assign filename and location

fileVar = IO.File.CreateText("product.txt")

3) Write data to file

fileVar.Write("hello world")

- 4) Close a file access
  - fileVar.Close()

#### Appending data to a sequential access file

Writing data to file has 4 parts

1) Create a file variable

Dim fileVar as IO.StreamWriter

2) Assign filename and location

fileVar = IO.File.AppendText("product.txt")

3) Write data to file

fileVar.Write("hello world")

- 4) Close a file access
  - fileVar.Close()

# Reading data from a sequential access file—a single line

Writing data to file has 4 parts

1) Create a file variable

Dim fileVar as IO.StreamWriter

2) Assign filename and location

fileVar = IO.File.OpenText("product.txt")

3) Write data to file

strMessage = fileVar.ReadLine

- 4) Close a file access
  - fileVar.Close()

### Reading data from a sequential access file multiple lines

Writing data to file has 4 parts

1) Create a file variable

Dim fileVar as IO.StreamWriter

2) Assign filename and location

fileVar = IO.File.OpenText("product.txt")

3) Write data to file

Do Until fileVar.Peek = -1

strMessage = fileVar.ReadLine
console.writeline( strMessage )

#### Loop

4) Close a file access fileVar.Close()

#### Dev1: Open text file



```
Private Sub btnOpen Click(ByVal sender As System
    Dim fileData As IO.StreamReader
    fileData = IO.File.OpenText("c:\test.txt")
    'write to a string
    Dim strData As String
    strData = "" 'clear all
    Do Until fileData.Peek = -1
        strData += fileData.ReadLine
        strData += ControlChars.NewLine
    Loop
    tbFileData.Text = strData
End Sub
```

Create a text file and save at c:\

#### Dev2: Save text file

```
Private Sub btnSave_Click(ByVal sender As System.Objec
    Dim fileData As IO.StreamWriter
    fileData = IO.File.AppendText("c:\text_out.txt")
    Dim strData As String
    strData = tbFileData.Text
    fileData.WriteLine(strData)
    fileData.Close()
```



After click the button, Program Create the text file.

#### Dev3: Menu bar



Priv	vate Sub OpenToolStripMenuItem_Click(ByVal :
	Dim fileData As IO.StreamReader
	<pre>fileData = IO.File.OpenText("c:\test.txt")</pre>
	'write to a string
	Dim strData As String
	strData = "" 'clear all
	Do Until fileData.Peek = -1
	strData += fileData.ReadLine
	<pre>strData += ControlChars.NewLine</pre>
	Loop
	tbFileData.Text = <mark>strData</mark>
End	Sub

```
Private Sub ExitToolStripMen
Me.Close()
End Sub
```



### Dev4: Open and Save dialog

```
Private Sub OpenToolStripMenuItem Click(ByVal sender As System
    Dim fileData As TO.StreamReader
    Dim result As DialogResult = OpenFileDialog1.ShowDialog()
     ' Test result.
    If result = Windows.Forms.DialogResult.OK Then
         Dim filename As String
         filename = OpenFileDialog1.FileName
         fileData = IO.File.OpenText(filename)
         'write to a string
         Dim strData As String
                                                             Dialogs
                                                              Pointer
         strData = "" 'clear all
                                                               ColorDialog
                                                              FolderBrowserDialog
         Do Until fileData.Peek = -1
                                                              FontDialog
                                                               OpenFileDialog
                                                               SaveFileDialog
              strData += fileData.ReadLine
                                                                        MenuStrip1
                                                            WPF Interoperability
                                                            Usual Basic PowerPacks
              strData += ControlChars.NewLine
         Loop
         tbFileData.Text = strData
    End If
```

#### Quiz10