

# SWIT: 11 Text file

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# Learning Outcome

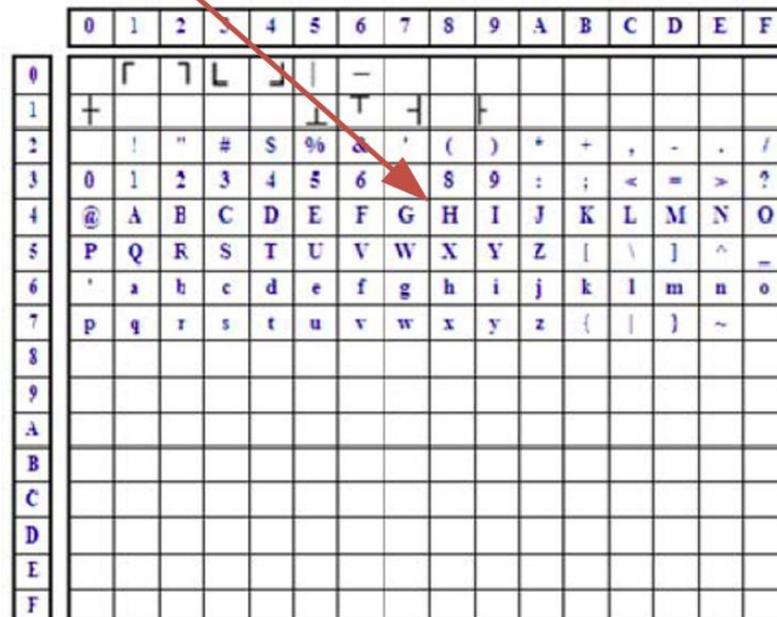
- Understand the text file usage in VB.
- Implement open/save text file in the application.

# 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

HELLO



	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F	
0																	
1	+																
2		!	"	#	\$	%	&	'	(	)	*	+	,	-	.	/	
3		0	1	2	3	4	5	6	7	8	9	:	;	<	=	>	?
4	@	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	
5	P	Q	R	S	T	U	V	W	X	Y	Z	[	\	]	^	_	
6	'	a	b	c	d	e	f	g	h	i	j	k	l	m	n	o	
7	p	q	r	s	t	u	v	w	x	y	z	{		}	~		
8																	
9																	
A																	
B																	
C																	
D																	
E																	
F																	

HELLO

48H-45H-4CH-4CH-4FH

48H = 0100-1000b

45H = 0100-0101b

4CH = 0100-1011b

4CH = 0100-1011b

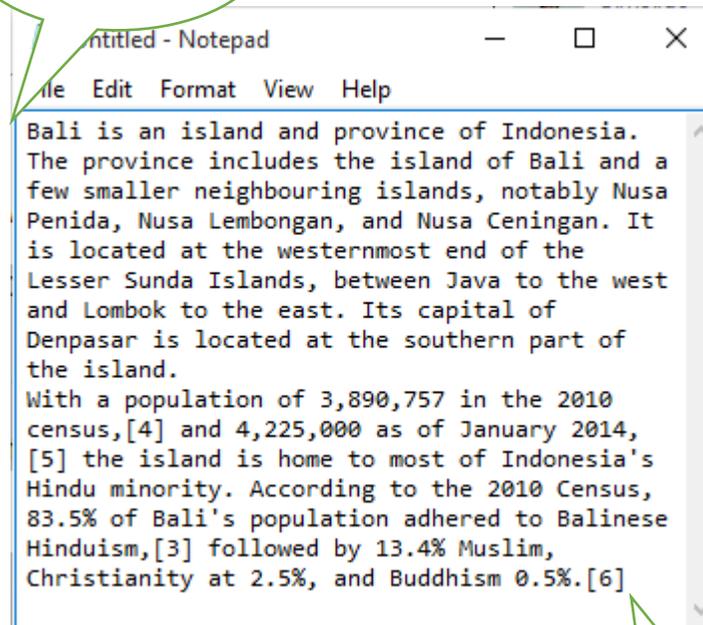
4FH = 0100-1111b



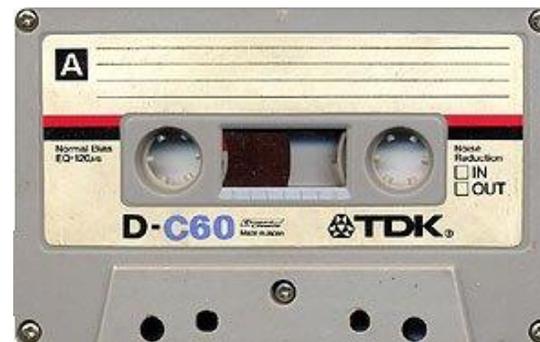
# Sequential Access Files

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



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
```

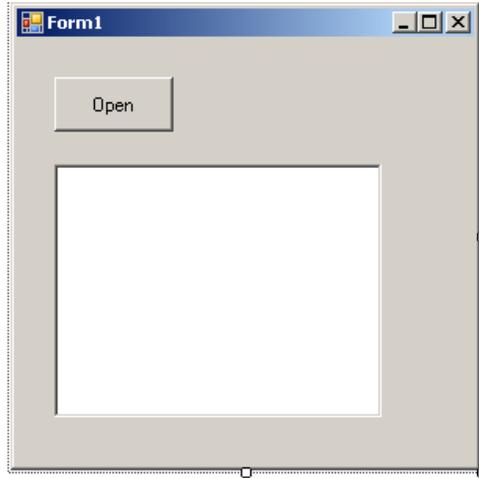
```
    console.writeline( strMessage )
```

```
Loop
```

4) Close a file access

```
fileVar.Close()
```

# Dev1: Open text file

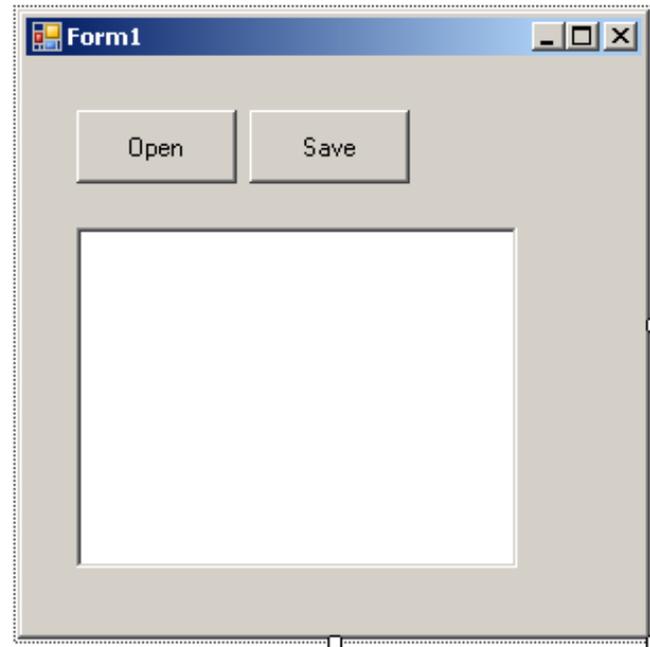


```
Private Sub btnOpen_Click(ByVal sender As System
    Dim fileData As IO.StreamReader
    fileData = IO.File.OpenText("c:\test.txt")
    'write to a string
    Dim strData As String
    strData = "" 'clear all
    Do Until fileData.Peek = -1
        strData += fileData.ReadLine
        strData +=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

Create a text file and  
save at c:\

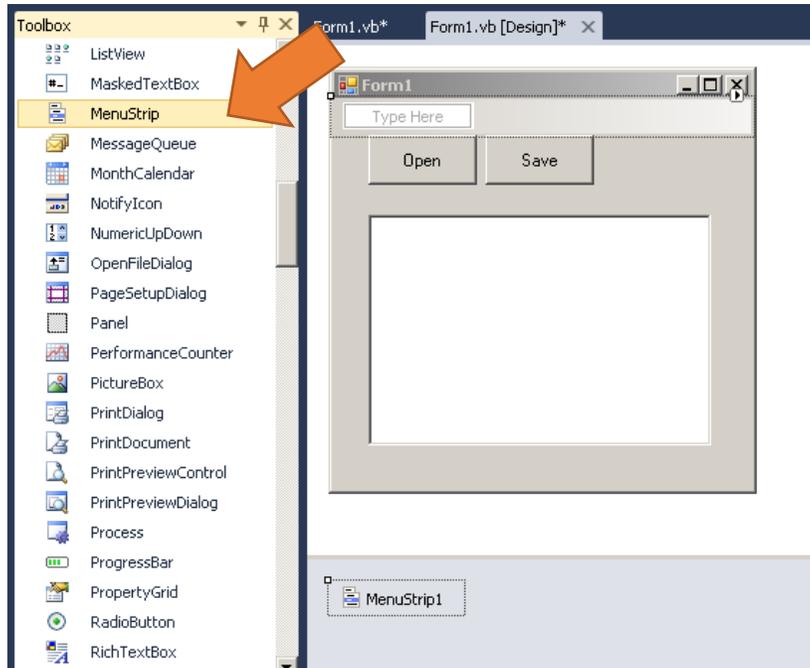
# Dev2: Save text file

```
Private Sub btnSave_Click(ByVal sender As System.Object)
    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()
End Sub
```



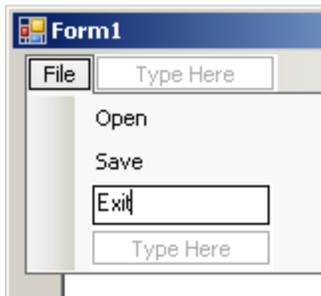
After click the button, Program Create the text file.

# Dev3: Menu bar



```
Private Sub OpenToolStripMenuItem_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles ToolStripMenuItem1.Click
    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

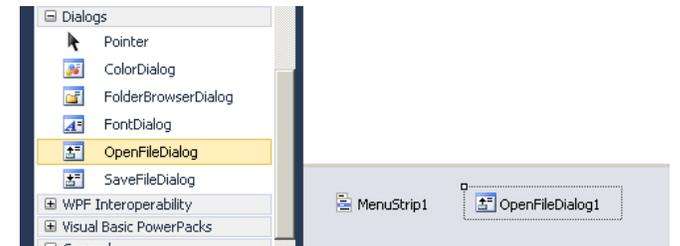
Private Sub ExitToolStripMenuItem_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles ToolStripMenuItem2.Click
    Me.Close()
End Sub
```



# Dev4: Open and Save dialog

```
Private Sub OpenToolStripMenuItem_Click(ByVal sender As System
    Dim fileData As IO.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
        strData = "" 'clear all
        Do Until fileData.Peek = -1
            strData += fileData.ReadLine
            strData += ControlChars.NewLine
        Loop
        tbFileData.Text = strData
    End If

End Sub
```



# Quiz10