«

>>

1.1.

1.1.1 Visual Studio .Net

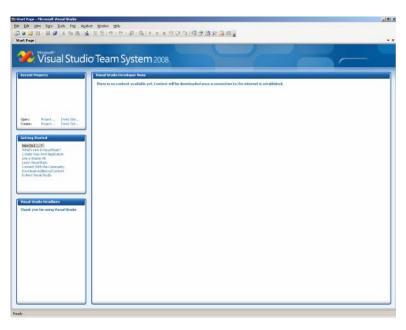
Microsoft Visual Studio .NET -

(Integrated Development Environment (IDE))

NET.

Visual Studio (VS) IDE-(. 1.1). (Start Page) HTML-

Web-



. 1.1 – Visual Studio

Visual Studio.NET

File→New→Project....

Other Languages→Visual

#, — Windows Forms Application. Name

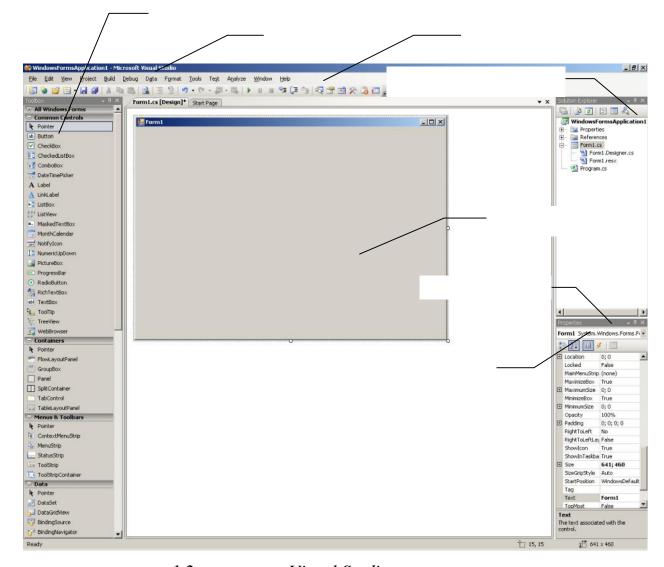
Visual Studio (. 1.2)

MDI-

- (View Code)

File,

(Designer -).



. 1.2 – Visual Studio

Edit, View . .) (Toolbars). IDE

(Floating),
(Dockable) (Tabbed

Document)

(Auto Hide)

(. 1.3)





. 1.3 –

View

1.1.

1.1 –

Build	
Crystal Reports - Insert	-
Crystal Reports - Main	-
Data Design	
Database Diagram	
Debug	
Debug Location	
Design	

Dialog Editor		
Formatting		
Full Screen		
HTML Editor	HTML	
Image Editor		
Layout		
MenuBar		
Query		
Recorder		
Source Control		
Standard		
Style Sheet		
Table		
Text Editor		
View		
Web		
XML Data	XML	
XML Schema	XML	

100ls () –	IDE	
()		
Window () -		
<i>Help</i> (,) –		
(MSDN)		
(MDDIV)		
	T/C	
	VS	
. Solution Explorer (). ,	
	,	
View→Solution Explorer		
:	,	
,	·	
•		
	•	
,	,	
	•	
(DLL)	(.NET Framewo	rk)
,		
(Class Designer Class Details)		
		Solution
Properties	A	ooiuiion
Explorer	•	
	Project/ _ Propert	ties
Properties	•	1.2
Solution Explorer.		

1.2 -

Solution Explorer

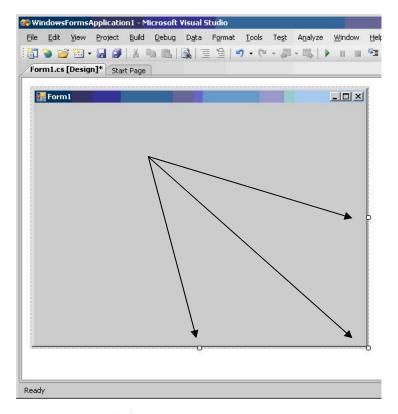


Solution Explorer

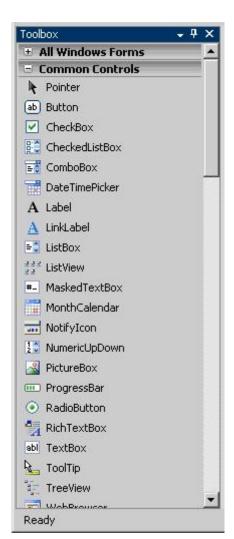
Project Edit

(form designer)

(. 1.4).



. 1.4 –



. 1.5 –

Menus&Toolbars

Data –

IDE

```
Add Tab (
```

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Toolbox

Choose Items (

(. 1.6),

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*** East Yes taken Power to Good Data Set Taylor Window State

*** East Yes taken Power to Good Data Set Taylor Window State

*** Control of Taylor State State

*** Control of Taylor State

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. 1.4 –

(design-

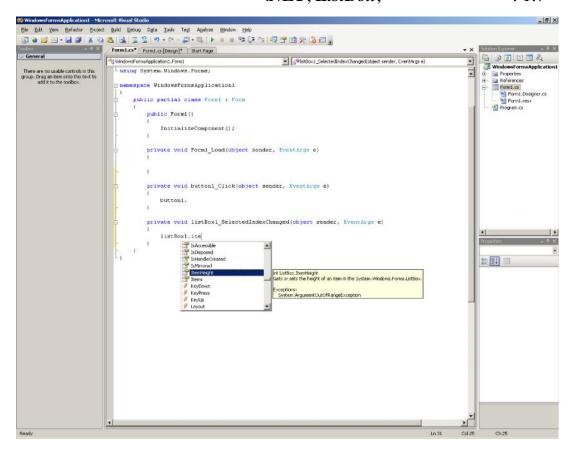
time debugging).

IntelliSense,

IntelliSense

.NET, ListBox,

. 1.7



. 1.5 –

IntelliSense

View→Properties Window

(. 1.8).

```
button1 System.Windows.Forms.Bul -
                                                               3; 3; 3; 3
                                                                                                       0; 0

    MinimumSize

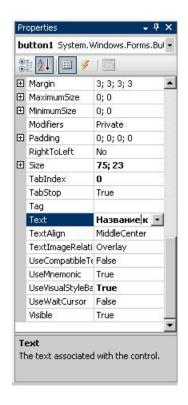
                                                                                                       0; 0
                                                                                           Modifiers
                                                                                                       Private

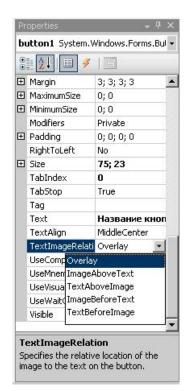
    ⊕ Padding

                                                                                                       0; 0; 0; 0
                                                                                           RightToLeft
                                                                                                       No
                                                                                                       75; 23

    ∃ Size

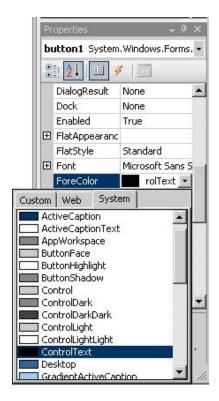
                                                                                           TabIndex
                                                                                                       0
                                                                                           TabStop
                                                                                                       True
                                                                                                       button1
Events
                                                                                           TextAlign
                                                                                                       MiddleCenter
                             ),
                                                                                           TextImageRelati Overlay
                                                                                           UseCompatibleTe False
                                                                                           UseMnemonic True
                                                                                           UseVisualStyleBa True
                                                                                           UseWaitCursor False
                                                                             VS
                                                                                          The text associated with the control.
                                                                                                 . 1.6 –
                                                     . 1.9 - 1.15:
Events (
                            ),
                         VS
                                       . 1.9 - 1.15:
                                      string, int
                                            bool (
    (enum),
                                                                               true/false);
                                                                                                     Color;
                                              TextAlign
                                                                     Dock
```

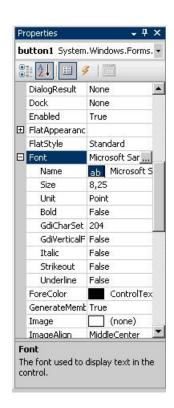




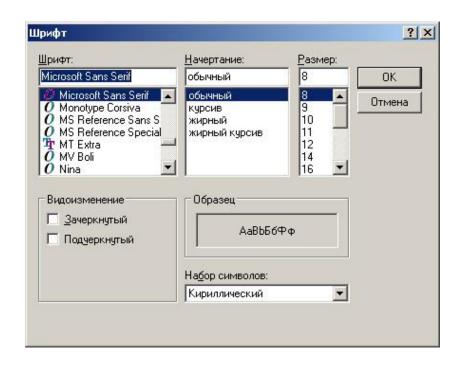
. 1.9 –

. 1.10 –

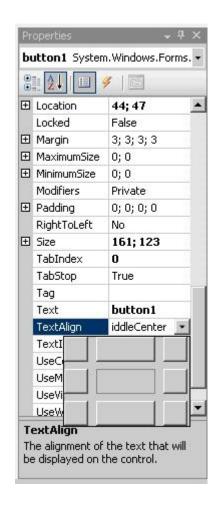


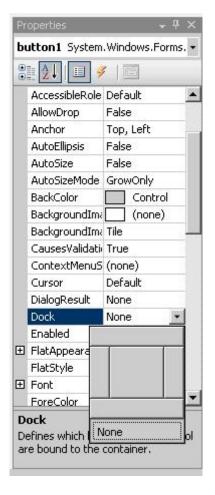


. 1.11 – . 1.12 – (



. 1.13 –





```
Class View
                                                                                     ),
                                                                                             Class View
                    View→Other Windows→Class View,
Ctrl+Shift+C.
                                                     ( .1.16).
                                     Class View
                                      <u>~</u> ⇒ | <u>~</u> + &
                                      <Search>
                                                                       · 🗗 🖹
                                          🚊 🥞 Form1
                                          ☐ Form1.MenuFlags
                                             Base Types
□ ★ Enum
                                                     ⊶ IComparable
                                                     IConvertible
                                                    ..- IFormattable
                                                  🛨 🤫 ValueType
                                        CompareTo(object)
                                         Enum()
                                        Equals(object)
                                        Equals(object, object)
                                        Format(System.Type, object, string)
                                        GetHashCode()
                                        GetName(System.Type, object)
                                        GetNames(System.Type)
                                        GetType()
                                        GetTypeCode()
                                        GetUnderlyingType(System.Type)
                                        GetValues(System.Type)
                                 . 1.16 –
                                                                         Class View
                                                                                    Go To Definition
```

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Object Browser

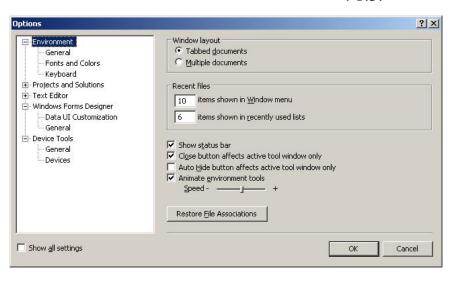
,

1.1.2

Options (Tools→Options)

Options (. 1.17)

. 1.3.



. 1.17 –

1.3 – *Options*

Environment	
General	IDE:
	Window layout –
	(Tabbed documents)
	(Multiple documents)
	Recent files – ,
	Show status bar –
	Animate environment tools –

	(Speed)	
Fonts and Colors	(Font), (Item foreground), (Item background).	
	Show settings for	
Keyboard		
Projects and Solutions	(Visual Studio projects location) (Visual Studio user project templates location). Allways show Error List if build finishes with errors – Track Active Item in Solution Explorer – Save new projects when created –	
Text Editor	Automatic insertion of end constructs – Show procedure line separators –	
	Enable error correction suggestions –	
Windows Forms		
Designer	Layout Settings – (ShowGrid), (GridSize), (SnapToGrid)	

1.1.3

1.4.

Anchor						
BackColor						
BackgroundImage						,
Cursor						
Dock						
Enabled				Enabled	true	,
Font	,					
ForeColor						
Location		/	,		_	
			,			
Name			•			
Size		,		Heigh —	W	idth
TabIndex						
Tabstop						
Text		,				
ToolTip on						
Visible						

1.2. (*) 1.3. 1. 2. 3. 4. 5.). (1.4. ? 1. 2. ().

(

21

3.

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4.
5.
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                            (
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7.
8.
9.
10.
11.
   Unchecked,
                             - Checked,
                                                      Indeterminate.
12.
13.
                             5
14.
15.
16.
17.
18.
19.
```

*.

1	2	3	4
	<u> </u>		
	Form	(*)	78/90
	Button	(*)	True
	CheckBox	MouseOverBackColor	Tomato
1.	RadioButton	(*)	
1.	TextBox	(*)	
	Label	Image	**)
	ListBox	MultiColumn	False
	GroupBox	BorderStyle	FixedSingle
	Form	(*)	Green
	Button	BorderSize	4
	CheckBox	- (*)	**)
2.	RadioButton	(*)	True
۷.	TextBox	(*)	Agency FB/18/
	Label	ImageAlign	BottomLeft
	ListBox	(*)	PanNE
	Panel	Tab (*)	6
	Form	(*)	
	Button	TextAlign	TopCenter
	CheckBox	(*)	25/40
3.	RadioButton	TextImageRelation	ImageAboveText
	TextBox	ScrollBars	Vertical
	Label	(*)	DescTop
	ListBox	HorizontalScrollbar	True
	GroupBox	AutoSize	False
	Form	StartPosition	WindowDefaultLocation
	Button	(*)	_
	CheckBox	Tab (*)	True
4.	RadioButton	BorderColor	
	TextBox	CharterCasing	Upper
	Label	(*)	**)
	ListBox	ScrollAlwaysVisible	False
	GroupBox	(4)	10, 4, 10, 4
		(*)	T. 101
5.	Form	FormBorderStyle	Fixed3d
	Button	MouseDownBackColor	Maroon

1	2	3	4
1	CheckBox	(*)	·
	RadioButton	(*)	4
	TextBox	AcceptsTab	True
	Label	TextAlign	MiddleLeft
	ListBox	Tab (*)	False
	Panel	BackgroundImageLayot	Tile
	Form	Icon	**)
	Button	FlatStyle	Popup
	CheckBox	(*)	Impact/ /20
	RadioButton	CheckedBackColor	Green
6.	TextBox	(*)	False
	Label	(*)	101/43
	ListBox	ColumnWidth	34
	GroupBox	(*)	JT
	Form	Opacity	45%
	Button	AutoSize	True
	CheckBox	(*)	**)
	RadioButton	CheckAlign	TopCenter
7.	TextBox	PasswordChar	#
	Label	(*)	ScrollBar
	ListBox	SelectionMode	MultiSimple
	Panel	Tab (*)	1
	Form	ControlBox	True
	Button	ImageAlign	MiddleRight
	CheckBox	CheckState	Unchecked
	RadioButton	(*)	Unchecked
8.	TextBox	(*)	Red
	Label	(*)	False
	ListBox	(*)	12/14
	Panel	- (*)	12/1 4 **)
	Form	,	True
	Button	(*)	70/34
	CheckBox	(*) TextImageRelation	
	RadioButton	MouseOverBackColor	TextBeforeImage
9.	TextBox	HideSelection	ActiveCaption Fakse
<i>)</i> .	Label		None
	ListBox	BorderStyle (*)	NOILE
		(*)	Times New Roman/
	GroupBox		/28
	_		/40

1	2	3	4
	Form	WindowState	Minimized
	Button	(*)	
	CheckBox	Tab (*)	5
10.	RadioButton	Checked	True
ι υ.	TextBox	Lines	
	Label	Image	**)
	ListBox	(*)	Olive
	Panel	AutoScroll	False
	Form	(*)	50/50
	Button	ImageAlign	TopRight
	CheckBox	AutoCheck	False
	RadioButton	(*)	YellowGreen
11.	TextBox	BorderStyle	Fixed3D
	Label	(*)	
	ListBox	(*)	True
	GroupBox	BackgroundImageLayot	None
	Form	MinimizeBox	False
	Button	BorderColor	Green
	CheckBox		
	RadioButton	Tab (*)	False
12.	TextBox	TextAlign	Left
	Label	(*)	11
	ListBox	(*)	NoMove2D
	Panel	-	**)
		(*)	
	Form	(*)	Georgia/ /20
	Button	TextImageRelation	ImageBeforeText
	CheckBox	(*)	False
13.	RadioButton	CheckedBackColor	Maroon
	TextBox	MaxLength	22
	Label	(*)	
	ListBox	(*)	22/33
	Panel	BorderStyle	FixedSingle
14.	Form	(*)	False
	Button		DescTop
	CheckBox	CheckAlign	TopCenter
	RadioButton	(*)	**)
	TextBox	Multiline	True

1	2	3	4
	Label	(*)	Cross
	ListBox	Items	
	GroupBox	(*)	10/20
	Form	BackgroundImageLayot	Tile
	Button	TextAlign	TopLeft
	CheckBox	BorderSize	8
15.	RadioButton	Appearance	Button
13.	TextBox	(*)	
	Label	AutoSize	True
	ListBox	Tab (*)	0
	Panel	(*)	
	Form	(*)	2, 5, 4. 8
	Button	Image	**)
	CheckBox	TreeState	True
16.	RadioButton	MouseDownBackColor	Turquoise
10.	TextBox	Tab (*)	False
	Label	FlatStyle	Flat
	ListBox	(*)	
	GroupBox	(*)	Windows
	Form	StartPosition	manual
	Button	(*)	Blue
	CheckBox	(*)	170/220
17.	RadioButton	(*)	Magneto/22
1/.	TextBox	ReadOnly	False
	Label	(*)	True
	ListBox	BorderStyle	None
	GroupBox	- (*)	**)
	Form	MaximizeBox	False
	Button	(*)	**)
	CheckBox	BorderColor	YellowGreen
18.	RadioButton	(*)	True
10.	TextBox	TextAlign	Right
	Label	BorderStyle	FixedSingle
ļ	ListBox	(*)	71/83
	GroupBox	(*)	Arial/ /18
19.	Form	FormBorderStyle	SizableToolWindow
	Button	(*)	
	CheckBox	Image	**)

1	2	3	4
	RadioButton	Tab (*)	5
	TextBox	(*)	MenuHighlight
	Label	ImageAlign	MiddleCenter
	ListBox	Sorted	True
	Panel	AutoScroll	False
	Form	- (*)	**)
	Button	(*)	44/44
	CheckBox	(*)	
20	RadioButton	BorderSize	5
20.	TextBox	ScrollBars	Both
	Label	Tab (*)	False
	ListBox	(*)	
	Panel	(*)	
	Form	ShowIcon	False
	Button	BackgroundImageLayot	None
	CheckBox	MouseDownBackColor	Firebrick
	RadioButton	(*)	
21.			Windows
	TextBox	(*)	False
	Label	(*)	SizeNESW
	ListBox	(*)	
	GroupBox	(*)	9
	Form	(*)	!!!
	Button	TextImageRelation	TextAboveImage
	CheckBox	ImageAlign	TopCenter
22.	RadioButton	MouseOverBackColor	Turquoise
	TextBox	CharterCasing	Normal
	Label	Tab (*)	4
	ListBox	MultiColumn	True
	Panel	AutoSize	False
	Form	ShowInTaskBar	True
	Button	(*)	WaitCursor
	CheckBox	(*)	False
23.	RadioButton	TextAlign (*)	MiddleLeft
	TextBox	(*)	252/125 **)
	Label ListBox	Image (*)	/
		(*)	Century Gothic/ /16
	GroupBox	(.)	

1	2	3	4
	Form	WindowState	Normal
	Button	BorderSize	4
	CheckBox	- (*)	**)
24.	RadioButton	(*)	25/40
27.	TextBox	Lines	
	Label	Tab (*)	False
	ListBox	SelectionMode	One
	Panel	(*)	SandyBrown
	Form	Opacity	66%
	Button	(*)	
	CheckBox	(*)	12
25.	RadioButton	TextImageRelation	ImageBeforeText
23.	TextBox	BorderStyle	Fixed3D
	Label	(*)	
	ListBox	(*)	True
	GroupBox	(*)	PeachPuff
	Form	AutoScroll	False
	Button	(*)	Broadway/12
	CheckBox	MouseOverBackColor	LawnGreen
1.	RadioButton	(*)	2/3
1.	TextBox	WordWrap	True
	Label	TextAlign	MiddleRight
	ListBox	(*)	No
	Panel	BackgroundImageLayot	Stretch
	Form	Icon	**)
	Button	(*)	True
	CheckBox	Appearance	Normal
2.	RadioButton	ImageAlign	MiddleRight
2.	TextBox	(*)	
	Label	(*)	99/1
	ListBox	HorizontalScrollbar	False
	LISTDOX	710112011 111 10110 1 11	
	GroupBox	(*)	IndianRed
3.		+	
3.	GroupBox	(*)	IndianRed
3.	GroupBox Form	(*) ControlBox	IndianRed True False
3.	GroupBox Form Button	(*) ControlBox (*)	IndianRed True
3.	GroupBox Form Button CheckBox	(*) ControlBox (*) (*)	IndianRed True False

1	2	3	4
	ListBox	BorderStyle	FixedSingle
	GroupBox	Tab (*)	5
	Form	- (*)	**)
	Button	MouseDownBackColor	Turquoise
	CheckBox	TextAlign	MiddleCenter
4	RadioButton	FlatStyle	System
4.	TextBox	(*)	Courier New/ /22
	Label	AutoSize	True
	ListBox	ColumnWidth	40
	GroupBox	(*)	28/57
	Form	(*)	Arrow
	Button	(*)	3, 12, 10, 5
	CheckBox		**)
		(*)	,
5.	RadioButton	Checked	True
	TextBox	(*)	
	Label	(*)	Silver
	ListBox	(*)	
	Panel	(*)	False
	Form	(*)	203/170
	Button	TextImageRelation	ImageAboveText
	CheckBox	(*)	Lucida Calligraphy/14
6.	RadioButton	CheckAlign	MiddleCenter
0.	TextBox	(*)	
	Label	FlatStyle	Standart
	ListBox	ScrollAlwaysVisible	False
	Panel	AutoSize	True
	Form	FormBorderStyle	FixedDialog
	Button	Tab (*)	1
	CheckBox	TextImageRelation	ImageAboveText
7.	RadioButton	(*)	False
/.	TextBox	PasswordChar	@
Ì	Label	(*)	
	ListBox	Sorted	True
	GroupBox	(*)	Peru
8.	Form	MinimizeBox	False
	Button	MouseOverBackColor	ActiveBorder
	CheckBox	(*)	110/115
1	RadioButton	(*)	!!!

1	2	3	4
	TextBox	(*)	SizeAll
	Label	ImageAlign	MiddleCenter
	ListBox	Tab (*)	True
	Panel	BackgroundImageLayot	Tile
	Form	(*)	True
	Button	(*)	
	CheckBox	CheckAlign	TopRight
9.	RadioButton	(*)	4, 8, 8, 4
9.	TextBox	HideSelection	False
	Label	BorderStyle	Fixed3D
	ListBox	(*)	InactiveBorder
	GroupBox	- (*) **)
1	2	3	4
	Form	(*)	
	Button	TextAlign	BottomRight
	CheckBox	(*)	HSplit
	RadioButton	CheckedBackColor	
10.	TextBox	AcceptsTab	False
	Label		**)
		(*)	
	ListBox	Tab (*)	4
	Panel	(*)	True
	Form	BackgroundImageLayot	Center
	Button	AutoSize	False
	CheckBox	CheckState	Unchecked
11.	RadioButton	(*)	DarkSeaGreen
	TextBox	MaxLength	12
	Label	(*)	58/77
ł	ListBox	(*)	
	Panel	(*)	Kartika/ / 24
	Form	StartPosition	CenterScreen
	Button	BorderColor	DarkGoldenrod
	CheckBox	FlatStyle	Popup
	RadioButton		**)
12.		(*)	
	TextBox	Lines	
	Label	(*)	True
	ListBox	MultiColumn	False
	GroupBox	Tab (*)	2

1	2	3	4
	Form	(*)	Verdana/16
	Button	(*)	
	CheckBox	Image	**)
13.	RadioButton	MouseDownBackColor	Red
13.	TextBox	Multiline	False
	Label	TextAlign	BottomCenter
	ListBox	(*)	65/70
	Panel	AutoScroll	True
	Form	Icon	**)
	Button	(*)	,
	CheckBox	ImageAlign	TopCenter
14.	RadioButton	RightToLeft	Yes
14.	TextBox	ReadOnly	True
	Label	Tab (*)	6
	ListBox	(*)	False
	GroupBox	(*)	-
	Form	MaximizeBox	True
	Button	Image	**)
	CheckBox	Tab (*)	False
15.	RadioButton	CheckedBackColor	
15.	TextBox	ScrollBars	Horizontal
	Label	(*)	
	ListBox	(*)	100/100
	Panel	(*)	
	Form	(*)	False
	Button	FlatStyle	System
	CheckBox	BorderSize	11
16.	RadioButton	CheckAlign	MiddleCenter
10.	TextBox	(*)	Happy Birth Day To You!
	Label	(*)	
	ListBox	Tab (*)	3
	GroupBox	BackgroundImageLayot	Zoom
17.	Form	(*)	-10, 20
	Button	(*)	
	CheckBox	Appearance	Button
	RadioButton	BorderSize	6
	TextBox	TextAlign	Center
	Label	Tab (*)	True
	ListBox	Items	

1	2	3	4
	Panel		**)
	-	(*)	
	Form	WindowState	Maximized
	Button		**)
	CheckBox	AutoCheck	False
18.	RadioButton	MouseOverBackColor	Violet
10.	TextBox	(*)	True
Ŷ	Label	(*)	4, 8, 8, 4
	ListBox		MultiExtented
	GroupBox	(*)	
	Form	(*)	
	Button	BorderSize	6
	CheckBox	(*)	78/90
19.	RadioButton	ImageAlign	TopCenter
1).	TextBox	(*)	True
	Label	Image	**)
	ListBox	(*)	Sienna
	Panel	(*)	Default
	Form	ShowInTaskBar	True
	Button	BackgroundImageLayot	Stretch
	CheckBox	MouseDownBackColor	Teal
	RadioButton	(*)	SizeWE
20.	TextBox	(*)	55/55
	Label	AutoSize	False
	ListBox	(*)	Bookman Old Style/
			/20
	Panel	(*)	
	Form	- (*)	**)
	Button	BorderColor	WindowText
	CheckBox	TreeState	True
21.	RadioButton		
21.	TextBox	Tab (*)	False
	Label	(*)	
	ListBox	(*)	24/70
	Panel	BorderStyle	None
22.	Form	StartPosition	CenterParent
	Button	(*)	True
	CheckBox	Image	**)
	RadioButton	(*)	

1	2	3	4
	TextBox	Multiline	False
	Label	Tab (*)	6
	ListBox	(*)	AppStarting
	GroupBox	(*)	
	Form	BackgroundImageLayot	Zoom
	Button	(*)	66/30
	CheckBox	CheckAlign	TopCenter
23.	RadioButton	(*)	HSplit
23.	TextBox	(*)	Vivaldi/22/
	Label	(*)	
	ListBox	ScrollAlwaysVisible	False
	Panel	(*)	True
	Form	(*)	SizeWE
	Button	TextAlign	MiddleCenter
	CheckBox	AutoCheck	True
24.	RadioButton	CheckedBackColor	
24.	TextBox	(*)	
	Label	(*)	10, 4, 10, 4
	ListBox	(*)	False
	GroupBox	- (*)	**)
	Form	(*)	
	Button	(*)	False
	CheckBox	CheckState	Checked
25.	RadioButton	ImageAlign	TopCenter
	TextBox	HideSelection	True
	Label		**)
		(*)	
	ListBox	(*)	Magenta
	GroupBox	Tab (*)	0

**) Windows