Frequently Asked Questions

Question	Answer
1. **How can we show a Windows Form in the center of the screen during its execution?**	A Windows Form can be displayed in the center of the screen by setting the `StartPosition` property of the form to `CenterScreen`.
2. **Can we block users from resizing a Windows Form?**	Yes, a user can be blocked from resizing a form by using the `FormBorderStyle` and the `MaximizeBox` properties. To do so, set the value of the `FormBorderStyle` property to `FixedDialog` and the value of the `MaximizeBox` property to `false`.
3. **Can we programmatically close a Windows Form application?**	Yes, a Windows Form application can be closed programmatically using the `Application.Exit()` method.

4. **Can we access the value of a `TextBox` control existing on a form from another form?**	The following code demonstrates how to access a `TextBox` value existing on a form from another form.
	
	`EmployeeDetails frmEmployee = new EmployeeDetails();`
	
	`MessageBox.Show(frmEmployee.Controls["txtEmpName"].Text);`

5. **How can we specify the casing for the text appearing in a `TextBox` control?**	The casing for the text appearing in the `TextBox` control can be specified using the `CharacterCasing` property and the `CharacterCasing` enumeration.
	
	`// Changing to lower case`
	`txtStatus.CharacterCasing = CharacterCasing.Lower;`

6. **Can a `TextBox` control support password characters?**	Yes, a password character is supported by the `TextBox` control by setting the `PasswordChar` property of the control.

7. **Can we check all items listed in a `CheckedListBox` control?**	Yes, all the items can be checked in the `CheckedListBox` using the following snippet.
	
	`for(int i=0 ; i < chlProducts.Items.Count; i++)`
	`{`
	`    chlProducts.SetItemChecked(i, true);`
	`}`

8. When an image is loaded into an `ImageList` control, where is the image stored in the application?	The image is stored in the **<FormName>.resx** file associated with the form to which the `ImageList` control is added. Each form in the application has its own .resx file. To view the information about the image in the .resx file, you can double-click the file in **Solution Explorer** window.
9. Can we make a semi-transparent `Panel` on a Windows Form?	Yes, a semi-transparent panel can appear on a form by specifying the alpha value for the background color of the `Panel`. To set the alpha value, set the `BackColor` property as displayed in the following snippet. `pnlStudents.BackColor = Color.FromArgb(65, 204, 212, 230);`
10. Is there any way to display checkboxes in a `TreeView` control?	Yes, you can display checkboxes in the nodes of the `TreeView` control by setting the `CheckBoxes` property of the `TreeView` control to `true`.

11. How can we identify the node level of a node in a `TreeView` control?	The following snippet will help you to determine the node level of a particular node in the `TreeView` control.
	
	`public int NodeLevel(TreeNode treeNode)`
	`{`
	`    int nodeLevel = 0;`
	`    while ((treeNode = treeNode.Parent) != null)`
	`        nodeLevel++;`
	`    return nodeLevel;`
	`}`

12. How can we change the time format of a `DateTimePicker` control to 24 hour format?	The time format of the `DateTimePicker` control can be changed to 24 hour format by setting the `CustomFormat` property of `DateTimePicker` class to `"H"`.

13. How can we set the maximum and minimum visible dates for a `MonthCalendar` control?	The maximum and minimum dates for the `MonthCalendar` control can be set using the `MaxDate` and `MinDate` properties. The following snippet demonstrates how to set the minimum and maximum dates.
	
	`// Sets the minimum date to 1/1/1900.`
	
	`calBirthDate.MinDate = new System.DateTime(1900, 1, 1, 0, 0, 0, 0);`
	
	`//Sets the minimum date to 1/1/2007.`
	
	`calBirthDate.MaxDate = new System.DateTime(2007, 1, 1, 0, 0, 0, 0);`

14.How can we prevent users from changing the values in the textbox area of a `ComboBox` control?	Users can be restricted from editing the textbox area by setting the `DropDownStyle` property of the `ComboBox` class to `DropDownList`.
15.How can we display and align an image on a `Button` control?	The images can be applied and aligned on the `Button` control using the `Image` and `ImageAlign` properties of the `Button` class.
16.While using `ContextMenu` for more than one control on a form, how can we identify the control on which the user has performed the right-click action?	The `ContextMenu.SourceControl` property should be used to identify the control on which the user has performed the right-click action.
17.How can we identify the clicked button on the toolbar?	The following snippet demonstrates how to find the clicked button on the toolbar. `private void tbrMenu_ButtonClick(object sender, System.Windows.Forms.ToolBarButtonClickEventArgs e) { if (e.Button == tbrmnubtnNew) MessageBox.Show("You have clicked on the New button"); }`
18.How can we set the background color of a form by using the `ColorDialog`?	The following snippet demonstrates how to set the background of a form by using the `ColorDialog`. `ColorDialog cdlgInvoiceOrder = new ColorDialog(); if (cdlgInvoiceOrder.ShowDialog() == DialogResult.OK) { this.BackColor = cdlgInvoiceOrder.Color; }`
19.Does ADO.NET support MySql?	Yes, ADO.NET supports MySql.
20.How can we retrieve the number of rows in a `DataGrid` control?	The following snippet demonstrates how to retrieve the total number of rows in the `DataGrid` control. `int rows = dgridOrders.BindingContext[dgridOrders.DataSource, dgridOrders.DataMember].Count;`

21. Identify the difference between user controls and custom controls.	User controls are created to be used in a single application, while custom controls are designed to be used among multiple applications. This is because if user controls are used among multiple applications, the user faces maintenance and redundancy problems. User controls are preferred when you need to display static content. For dynamic content, custom controls must be designed. However, a user control is easy to design as it requires less amount of code.
22. Can crystal reports display information from multiple databases simultaneously such as from SQL Server, Oracle, and Microsoft Access?	Yes, a crystal report can display information from multiple databases simultaneously by using the suitable ADO.NET objects.
23. Do crystal reports support stored procedures?	Yes, crystal reports support stored procedures.
24. Are there any limitations of crystal reports?	Yes, there are limitations of crystal reports. These limitations are: Ø You cannot create a formula, which refers to a column whose length is greater than 255 characters. Ø The formatting of data is lost when you export a crystal report.
25. How can we identify the brightness of a color?	The `Color.GetBrightness()` method can be used to identify the color brightness. The method indicates the degree to which a color is having more of the black or white color.
26. Is it possible to select a specific cell range in a `DataGrid` control using a mouse?	No, it is not possible to select a range of cells in the `DataGrid` control using a mouse.
27. Can we draw a disabled bitmap image?	A bitmap image can be drawn in a disabled state by using the `DrawImageDisabled()` method of the `ControlPaint` class.
28. Can we rotate images drawn on a Windows Forms application?	Yes, images can be rotated on a Windows Forms application using the `Transform` property of the `Graphics` class and `Rotate()` method of the `Matrix` class.

29. Can we select the node when the dotted line existing towards the left side of the node is clicked in a `TreeView` control?	The following snippet demonstrates how to select a node when the user clicks on the node line.
	
	``csharp
	private void tvwFolders_Click(object sender, System.EventArgs e)
	{
	tvwFolders.SelectedNode = tvwFolders.GetNodeAt(tvwFolders.PointToClient(Cursor.Position));
	}
	``

30. Can we retrieve the pixel color in a bitmap image?	Yes, the color of the pixel in a bitmap image can be retrieved using the `GetPixel()` method of the `Bitmap` class. The following snippet demonstrates how to retrieve the color of a pixel, whose x and y-coordinates are `100`.
	
	``csharp
	Color objColor = bmpCircle.GetPixel(100, 100);
	``

31. How can we retrieve the integer value of a color?	The integer value of a color can be retrieved using the `ToArgb()` method of the `Color` structure. The following snippet demonstrates how to retrieve the integer value of a color.
	
	``csharp
	int red = Color.Red.ToArgb();
	MessageBox.Show(red.ToString());
	``

32. Can we create a multi-line tool tip for Windows Form controls?	Yes, a multi-line tool tip can be set for a control by using the `\n` escape sequence character in the tool tip string. The following snippet demonstrates how to set a multi-line tool tip for a `Button` control.
	
	``csharp
	tipHelp.SetToolTip(btnClick, Click here \nif you want save the student details.)
	``

33. Can a Windows Form application run on the machine, which does not have .NET Framework installed?	No, a Windows Form application cannot run on the machine, which does not have the .NET Framework installed.
34. How can we view the details of the assemblies registered using the Global Assembly Cache?	The details of assemblies present in the Global Assembly Cache of a machine can be viewed by navigating to the **C:\WINNT\assembly** folder or **C:\WINDOWS\assembly** folder.
35. Can we specify how many versions of an application will the ClickOnce deployment store?	No, we cannot specify how many versions of an application should be stored by the ClickOnce deployment. This is because the ClickOnce deployment stores only two versions of an application, the previous and the current versions.

36. Is ClickOnce deployment suitable for installing Windows Forms applications on multiple machines?	No, the ClickOnce deployment takes place for each user rather than per machine. Users must have their own copy of the application to work with the application. If per-machine installation is required, Windows Installer deployment (.msi) is recommended.

--- End of Frequently Asked Questions ---