

Advance Programming Techniques (APT)

Lecture # 20

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What is a Dialog Box?

- A **dialog box** is a small window that appears in front of an application to **take input, display information, or request confirmation** from the user
- There are two types of dialog boxes:
 - **Modal Dialog** — user must close it before interacting with other windows (e.g., MessageBox, OpenFileDialog)
 - **Modeless Dialog** — user can continue working in other windows (less common in WinForms) e.g. Find & Replace in MS Word, Toolbox or Properties window in Visual Studio — they are modeless

Common Built-in Dialog Boxes in C#

Dialog Type	Purpose
<code>OpenFileDialog</code>	Select files from disk
<code>SaveFileDialog</code>	Choose where to save files
<code>ColorDialog</code>	Select a color
<code>FontDialog</code>	Select a font style
<code>FolderBrowserDialog</code>	Choose a folder
<code>PrintDialog</code>	Configure printing options

MessageBox

- How to show a simple MessageBox
- MessageBox with Buttons and Icons
- MessageBox with confirmation of button

OpenFileDialog

```
OpenFileDialog ofd = new OpenFileDialog();
ofd.Title = "Select a File";
ofd.InitialDirectory = @"C:\";
ofd.Filter = "Text Files (*.txt)|*.txt|All Files (*.*)|*.*";
ofd.FilterIndex = 1;
ofd.RestoreDirectory = true;

if (ofd.ShowDialog() == DialogResult.OK)
{
    txtFilePath.Text = ofd.FileName;
}
```

SaveFileDialog

```
SaveFileDialog sfd = new SaveFileDialog();
sfd.Title = "Save File";
sfd.Filter = "Text Files (*.txt)|*.txt|All Files (*.*)|*.*";
sfd.DefaultExt = "txt";

if (sfd.ShowDialog() == DialogResult.OK)
{
    File.WriteAllText(sfd.FileName, txtEditor.Text);
    MessageBox.Show("File saved successfully!", "Success", MessageBoxButtons.OK,
}
```

ColorDialog

```
ColorDialog cd = new ColorDialog();  
  
if (cd.ShowDialog() == DialogResult.OK)  
{  
    this.BackColor = cd.Color;  
}
```

FontDialog

```
FontDialog fd = new FontDialog();  
  
if (fd.ShowDialog() == DialogResult.OK)  
{  
    txtEditor.Font = fd.Font;  
    txtEditor.ForeColor = fd.Color;  
}
```


FolderBrowserDialog

```
FolderBrowserDialog fbd = new FolderBrowserDialog();  
fbd.Description = "Select a folder to store files";  
  
if (fbd.ShowDialog() == DialogResult.OK)  
{  
    txtFolderPath.Text = fbd.SelectedPath;  
}
```