

# Advance Programming Techniques (APT)

Lecture # 19

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# What is a ToolTip?

- **ToolTip** is used to show a **small helpful hint** when the mouse **hovers** over a control
- It improves **usability** by providing contextual help to users
- Example: Hovering over a "Save" button shows "Click to save your work"

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# Common Properties

Property	Description
<b>AutoPopDelay</b>	How long the ToolTip remains visible (ms)
<b>InitialDelay</b>	Delay before ToolTip appears when hovered
<b>ReshowDelay</b>	Delay between ToolTips when moving cursor between controls
<b>IsBalloon</b>	Shows ToolTip in balloon style (true/false)
<b>ToolTipTitle</b>	Title text in the balloon ToolTip
<b>ToolTipIcon</b>	Icon (Info, Warning, Error, None)

# Applying ToolTip at Runtime

```
private void Form1_Load(object sender, EventArgs e)
{
    ToolTip ttp = new ToolTip();
    ttp.SetToolTip(btnSave, "Click to save your data");
    ttp.SetToolTip(txtName, "Enter your full name here");
    ttp.SetToolTip(numQuantity, "Select product quantity");
}
```

# What is a NumericUpDown?

- **NumericUpDown** allows the user to input a **numeric value** using a text box combined with up/down arrows
- It prevents invalid input (e.g., letters or special characters)
- Commonly used for age, quantity, rating, etc

# Common Properties

Property	Description
Minimum	Smallest allowed value
Maximum	Largest allowed value
Increment	Step value when arrows clicked
Value	Current value
DecimalPlaces	Number of decimal places
ThousandsSeparator	Adds comma separator
ReadOnly	Prevents manual typing

# Handling NumericUpDown Event

```
private void numQuantity_ValueChanged(object sender, EventArgs e)
{
    lblDisplay.Text = "Selected Quantity: " + numQuantity.Value.ToString();
}
```

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