Advance Programming Techniques (APT)

Lecture # 33

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ProgressBar Control

- A ProgressBar visually shows the **progress of a task**, such as file upload, downloading, loading data, or completing a loop

- It is commonly used in professional applications to give users feedback that the system is working

What is ProgressBar?

- A ProgressBar is a visual indicator that fills up as a task progresses

- It prevents the user from thinking the program is "stuck", especially in time-consuming operations

- Typical use cases:

  - Loading data from a database

  - Copying files

  - Long loops (simulations, calculations)

  - Upload and/or download process

  - Installation screens

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Important Properties

- Minimum
- Maximum
- Value
- Step
- Style
- Demonstrate ProgressBar with a loop