COMSATS UNIVERSITY ISLAMABAD, ATTOCK CAMPUS

DEPARTMENT OF COMPUTER SCIENCE

LAB TERMINAL

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Subject   **:** Compiler Construction

Section   **:** BCS 7"A"

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Question No # 2

How Function works Step by Step?

Answer:

1. **Form1_Load (Form Load Event Handler):**

   Steps:
   - This event is triggered when the form is loaded.
   - The DataGridView's properties are configured to make it read-only and fill the available space.
   - The title of the form is set to "CSV File Parser."

2. **btnSelectFile_Click (Button Click Event Handler):**
   Steps:
   - This event is triggered when the "Select File" button is clicked.
   - An OpenFileDialog is created to allow the user to select a CSV file.
   - If the user selects a file and clicks "Open," the selected file path is displayed in txtFilePath.
   - The LoadCsvData method is called with the selected file path.

3. **LoadCsvData:**
   Steps:
   - The method takes a file path as a parameter.
   - It clears the existing data in the DataGridView.
   - A DataTable is created to hold the CSV data.
   - The TextFieldParser is used to read the CSV file.
   - Column headers are read, and columns are created in the DataTable.
   - Data is read from the CSV file and added to the DataTable.
   - The DataTable is then bound to the DataGridView.
   - If an error occurs during this process, a MessageBox is displayed with an error message.