

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 #3

Functionalities along with screenshots (function code +output)?

Answer:

Functionalities:

```
private void Form1_Load(object sender, EventArgs e)
{
    // Set up DataGridView
    dataGridView1.AllowUserToAddRows = false;
    dataGridView1.ReadOnly = true;
    dataGridView1.AutoSizeColumnsMode = DataGridViewAutoSizeColumnsMode.Fill;
}
```

```
1 reference
private void button1_Click(object sender, EventArgs e)
{
    using (OpenFileDialog openFileDialog = new OpenFileDialog())
{
        openFileDialog.Filter = "CSV files (*.csv)|*.csv|All files (*.*)|*.*";

        if (openFileDialog.ShowDialog() == DialogResult.OK)
        {
            // Display selected file path
            txtFilePath.Text = openFileDialog.FileName;

            // Parse and load CSV data into DataGridView
            LoadCsvData(openFileDialog.FileName);
        }
}
```

```
private void LoadCsvData(string filePath)
   // Clear existing data
   dataGridView1.DataSource = null;
   // Create a DataTable to hold the CSV data
   DataTable dataTable = new DataTable();
   try
        using (TextFieldParser parser = new TextFieldParser(filePath))
           parser.Delimiters = new string[] { "," };
           // Read column headers
           string[] headers = parser.ReadFields();
           foreach (string header in headers)
                dataTable.Columns.Add(header);
            // Read data and fill DataTable
           while (!parser.EndOfData)
                string[] fields = parser.ReadFields();
               dataTable.Rows.Add(fields);
```

```
// Bind DataTable to DataGridView
  dataGridView1.DataSource = dataTable;
}
catch (Exception ex)
{
  MessageBox.Show($"Error: {ex.Message}", "Error", MessageBoxButtons.OK, MessageBoxIcon.Error);
}
```

Output





