

**COMSATS UNIVERSITY ISLAMABAD, ATTOCK CAMPUS**

**DEPARTMENT OF COMPUTER SCIENCE**

**LAB TERMINAL**

**Submitted to :** Mr. Bilal Haider

**Submitted by : AQSA BIBI (FA20-BCS-033)**

**MUNAZA (FA20-BCS-077)**

**Subject :** Compiler Construction

**Section :** BCS 7“A”

**Date :** 28-12-2023

**Question No # 1**

Write Brief Overview About Project?

**ANSWER:**

The project is a C# Windows Forms application that serves as a CSV file parser and viewer. The primary features include:

**Graphical User Interface (GUI):**

The application uses Windows Forms to create a user-friendly interface. A DataGridView is employed to display the parsed CSV data in a tabular format.

**CSV File Parsing:**

The program utilizes the TextFieldParser class from the Microsoft.VisualBasic.FileIO namespace to parse CSV files. It reads column headers and data from the selected CSV file and stores them in a DataTable.

**File Selection:**

A "Select File" button allows users to choose a CSV file using a file dialog. The selected file path is displayed in a TextBox.

**Error Handling:**

To detect and show any exceptions that may arise during the file parsing process, basic error handling is implemented. A MessageBox with an error message is displayed in the event of an error.

**Headline and Design:**

The application has a title that can be set programmatically or in the Visual Studio designer.

For visual customization, you can change the font's size and boldness, among other properties.

**Adaptability to Change:**

The code is intended to serve as a foundation that can be expanded and changed in response to particular