PYTHON ASSIGNMENT – 13

1.What advantages do Excel spreadsheets have over CSV spreadsheets?

Formatting: Excel allows for more complex formatting options such as font styles, colors, and cell merging, which can enhance the visual presentation of data.

Formulas: Excel supports formulas and functions for performing calculations and data manipulation directly within the spreadsheet.

Multiple Sheets: Excel workbooks can contain multiple sheets, enabling the organization of data into different tabs for better management.

Charts and Graphs: Excel provides built-in tools for creating charts and graphs to visualize data more effectively.

Data Validation: Excel offers features for data validation, such as drop-down lists and input restrictions, to ensure data integrity and accuracy.

2.What do you pass to csv.reader() and csv.writer() to create reader and writer objects?

To create a reader object, you pass a file object opened in read mode ('r') and optionally specify the delimiter and other parameters.

To create a writer object, you pass a file object opened in write mode ('w') and optionally specify the delimiter, lineterminator, and other parameters.

3. What modes do File objects for reader and writer objects need to be opened in?

For reader objects, the File object needs to be opened in read mode ('r').

For writer objects, the File object needs to be opened in write mode ('w').

4. What method takes a list argument and writes it to a CSV file?

The writerow() method of the writer object takes a list argument and writes it as a single row to the CSV file.

5. What do the keyword arguments delimiter and line terminator do?

Delimiter: Specifies the character used to separate fields in the CSV file. It defaults to a comma (','), but you can specify other characters such as tabs ('\t') or pipes ('|').

Line Terminator: Specifies the character sequence used to terminate each line in the CSV file. It defaults to '\r\n' (CR LF), but you can customize it as needed.

6. What function takes a string of JSON data and returns a Python data structure?

The json.loads() function takes a string of JSON data and parses it into a corresponding Python data structure, such as a dictionary or list.

7. What function takes a Python data structure and returns a string of JSON data?

The json.dumps() function takes a Python data structure, such as a dictionary or list, and converts it into a string of JSON data.