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

Excel spreadsheets have several advantages over CSV (Comma-Separated Values) spreadsheets:

**Formatting and Styling:** Excel allows you to apply formatting and styling to cells, such as changing font styles, colors, and cell borders. This makes it easier to present data in a visually appealing and organized manner.

**Formulas and Functions:** Excel supports a wide range of formulas and functions that can be used for calculations, data analysis, and automation. You can perform complex calculations, create dynamic formulas, and use built-in functions for various purposes.

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

To create reader and writer objects using the csv.reader() and csv.writer() functions, you need to pass a file object as the argument.

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

For the csv.reader() function, the file object needs to be opened in read mode, which is denoted by the mode 'r'. This allows the reader object to read data from the file.

For the csv.writer() function, the file object needs to be opened in write mode, which is denoted by the mode 'w'. This allows the writer object to write data to the file.

In addition to the read or write mode, it is important to specify the file mode as text mode by adding 't' to the mode string, such as 'rt' for reading and 'wt' for writing. This ensures that the file is opened as a text file, which is the expected format for CSV files.

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

The writerows() method of a csv.writer object is used to write multiple rows, each represented as a list, to a CSV file. It takes an iterable of lists as the argument.

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

The keyword argument delimiter is used in the csv.writer and csv.reader objects to specify the character used to separate fields in a CSV file. By default, a comma (,) is used as the delimiter, but you can specify a different character if needed.

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

The json.loads() function in Python is used to parse a string of JSON data and convert it into a Python data structure. The function takes a JSON-formatted string as input and returns a corresponding Python object.

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

The json.dumps() function in Python is used to convert a Python data structure into a string of JSON data. It takes a Python object as input and returns a JSON-formatted string representation of that object.