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

Ans - Excel spreadsheets offer advantages such as formatting options, support for multiple sheets, formulas and functions, charts and graphs, data validation, and built-in data analysis tools, which are not available in CSV spreadsheets.

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

Ans - We pass file objects to **csv.reader()** and **csv.writer()** to create reader and writer objects, respectively.

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

Ans - For reader objects (csv.reader()): File objects need to be opened in read mode ('r') to allow reading from the file.

For writer objects (csv.writer()): File objects need to be opened in write mode ('w') to allow writing to the file.

Additionally, when opening files for writing CSV data, it's recommended to use the newline='' parameter to prevent issues with newline characters.

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

Ans - The **writerow()** method takes a list argument and writes it to a CSV file. This method is available on writer objects created using the **csv.writer()** function from the **csv** module in Python. Each element in the list corresponds to a column in the CSV file, and calling **writerow()** writes a single row to the CSV file.

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

Ans -

* **Delimiter**: Specifies the character used to separate fields (columns) in the CSV file. By default, the comma (**,**) is used as the delimiter, but you can specify a different delimiter character, such as a tab (**\t**) or a semicolon (**;**), using the **delimiter** parameter. For example, **delimiter='\t'** sets the tab character as the delimiter.
* **Line Terminator**: Specifies the character or character sequence used to terminate each line in the CSV file. By default, the newline character (**\n**) is used as the line terminator. You can customize the line terminator using the **lineterminator** parameter. For example, **lineterminator='\r\n'** sets the carriage return and newline characters as the line terminator, suitable for Windows-style line endings.

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

Ans- The **json.loads()** function takes a string of JSON data and returns a Python data structure. It is used to parse JSON (JavaScript Object Notation) strings and convert them into equivalent Python data structures such as dictionaries, lists, strings, numbers, and booleans.

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

Ans- The **json.dumps()** function takes a Python data structure and returns a string of JSON data. It is used to serialize Python objects (such as dictionaries, lists, tuples, strings, numbers, and booleans) into JSON format.