Assignment-13

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

Ans1-Rich formatting and styling options.

Multiple sheets and workbooks within a single file.

Built-in formulas and functions for calculations.

Data validation rules for accuracy and consistency.

Support for graphical elements (images, shapes).

Easy-to-use filtering and sorting features.

Cell comments and notes for additional context.

Password protection and security features.

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

Ans2- To create reader and writer objects using the csv.reader() and csv.writer() functions in Python's csv module, you pass file objects as arguments.

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

Ans3- For a CSV Reader (reading data from a CSV file):You should open the file in read mode ('r') to create a reader object.

For a CSV Writer (writing data to a CSV file):You should open the file in write mode ('w') to create a writer object.

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

Ans4-The method that takes a list argument and writes it to a CSV file using a csv.writer object in Python's csv module is the writerow() method.The writerow() method is used to write a single row of data to the CSV file. You pass a list as an argument to this method, and the elements of the list are written as fields in a CSV row.

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

Ans5- delimiter:The delimiter keyword argument specifies the character or string that separates individual fields (columns) within a CSV row.

lineterminator:The lineterminator keyword argument specifies the character or string that should be used to terminate each line (row) in the CSV file.

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

Ans6- The function that takes a string of JSON data and returns a Python data structure is json.loads(). This function is part of Python's json module and is used to parse a JSON-formatted string into a corresponding Python data structure.

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

Ans7-The function that takes a Python data structure and returns a string of JSON data is json.dumps(). This function is part of Python's json module and is used to serialize a Python data structure into a JSON-formatted string.