

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

Solution - Excel can perform VBA Coding, functions, formulas and create summaries easily when compared to CSV. Reading large data set is much easier for the end-user to read, comprehend and understand when compared to CSV. Excel also provides the user option for external linking of data from other sources, and also, the user can do custom add-ins.

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

Solution - To read a CSV file with the csv module, first open it using the `open()` function, just as you would any other text file. But instead of calling the `read()` or `readlines()` method on the File object that `open()` returns, pass it to the csv.

Open the CSV file in writing (w mode) with the help of `open()` function. Create a CSV writer object by calling the `writer()` function of the csv module. Write data to CSV file by calling either the `writerow()` or `writerows()` method of the CSV writer object.

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

Solution - To read a file, you need to open the file in the read or write mode. While to write to a file in Python, you need the file to be open in write mode.

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

Solution - We can convert a list to CSV in python easily by importing an in-built CSV module in python. In this method, we use file handling in python to read the data of a list and then write it into a CSV file.

```
import csv
```

```
fields = ['Employee', 'ID', 'Salary']
```

```
rows = [['XYZ', '011', '2000'], ['ABC', '012', '8000'], ['PQR', '351', '5000'], ['EFG', '146', '10000']]
```

```
with open('EmployeeData.csv', 'w') as f:
```

```
    csv_writer = csv.writer(f)
```

```
    csv_writer.writerow(fields)
```

```
    csv_writer.writerows(rows)
```

4. What do the keyword arguments `delimiter` and `line terminator` do?

Solution - The delimiter is the character that appears between cells on a row. By default, the delimiter for a CSV file is a comma. The line terminator is the character that comes at the end of a row. By default, the line terminator is a newline.

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

Solution - `loads()` We use the `json.loads()` method to parse a JSON string and return a Python object such as a dictionary.

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

Solution - If you have a Python object, you can convert it into a JSON string by using the `json.dumps()` method.