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

Answer:

--> Excel can perform VBA coding, macros, functins, formulas and create summaries easily when compared to CSV.

--> Excel provides the user option for external linking of data from other sources and also user can do custom add-ins.

--> Excel is better for storing and analyze complex data as well.

--> Excel has functionality to formatting, summarizing, and presenting data easily.

--> Reading large files in Excel is easy for the end user compare to CSV.

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

Answer:

import csv

my\_file = open(‘test.csv’, ‘r’)

read\_csv = csv.reader(my\_file, delimiter=’,’)

# here read\_csv is a reader object where we have passed my\_file object with read method and optional parameers (say, delimeter)

new\_filename = ‘test2.csv’

new\_file = open(new\_filename, ‘w’)

write\_csv = csv.writer(new\_file)

# here write\_csv is a writer bject where we have passed new\_file object with write method

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

Answer:

--> for reader object, the file objects needed to be opened in read mode (mode=’r’)

--> for writer object, the file objects needed to be opened in write mode (mode=’w’)

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

Answer:

--> csv.writer class provides two methods for writing to CSV and they are (i) writerow() and writerows().

--> writerow() method writes only a single row (list argument) at a time.

--> writerows() method is used to write multiple rows (list argument) at a time.

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

Answer:

--> 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.

--> We can change characters to different values by using the delimiter and lineterminator keyword arguments with csv.writer().

--> Example:

Let’s say original csv file content:

a, b, c, d

1, 2, 3, 4

After passing delimiter='\t' and lineterminator='\n\n' changes the character between cells to a tab and the character between rows to two newlines.

Here is the new csv file content:

a b c d

1 2 3 4

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

Answer:

--> loads() method takes a string of JSON data and returns a Python data structure.

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

Answer:

--> dumps() metod takes a Python data structure and returns a string of JSON data.