**Assignment\_13**

Q1. What advantages do Excel spreadsheets have over CSV spreadsheets?

Ans: Excel advantages over CSV

* It is a binary file that holds information about all the worksheets in a workbook
* An Excel not only stores data but can also do operations on the data
* Files saved in excel cannot be opened or edited by text editors
* large files user is much easier in Excel for the end user. Also,
* you can have additional functions like selecting individual cells for import,
* convert dates and time automatically, reading formulas and their results, filters, sorting, etc
* Apart from text, data can also be stored in form of charts and graphs
* Excel can connect to external data sources to fetch data. You can use custom add-in in Excel to increase its functionality.
* Excel allows for Review of Data with detailed tracking and commenting feature
* In Excel, spreadsheets can have values of data types other than strings; cells can have different fonts, sizes,
* or color settings; cells can have varying widths and heights; adjacent cells can be merged

Q2.What do you pass to csv.reader() and csv.writer() to create reader and writer objects?

Ans: we pass a File object, obtained from a call to open()

import csv

exFile = open('example.csv')

exreader = csv.reader(exFile)

exData = list(exreader)

exData

Q3. What modes do File objects for reader and writer objects need to be opened in?

Ans: File objects need to be opened in read-binary ('rb') for Reader objects and write-binary ('wb') for Writer objects.

Q4. What method takes a list argument and writes it to a CSV file?

Ans: The writerow() method

opFile = open('output.csv','w')

opWriter = csv.writer(opFile)

csv.writer(opFile).writerow(['egg','orange','milk'])

Q5. What do the keyword arguments delimiter and line terminator do?

Ans: The delimiter argument changes the string used to separate cells in a row. The lineterminator argument changes the string used to separate rows.

import csv

csvFile = open('example.tsv', 'w', newline='')

csvWriter = csv.writer(csvFile, delimiter='\t', lineterminator='\n\n')

Q6. What function takes a string of JSON data and returns a Python data structure?

Ans: json.loads()

Q7. What function takes a Python data structure and returns a string of JSON data?

Ans: json.dumps()