Introduction to Computer Programming

Week 7.2: Modules for reading & writing files



Writing csv files

Example: Use the csv module to write the header and first row of the high score table shown to a .txt file.

As a delimiter other than the default ',' is being used, we must specity this when creating the writer object.

Place	Name	Score
1	Elena	550
2	Sajid	480
3	Tom	380
4	Farhad	305
5	Manesha	150

```
In [11]:
```

```
import csv

with open('sample_data/scores_.txt', 'w') as f: # open file

w = csv.writer(f, delimiter=' ') # writer obje

w.writerow(['place', 'name', 'score']) # list to row

w.writerow([1,'Elena', 550])
```

```
__Example:__ Write the high score table data to a csv file,
scores_.csv

writerows` can be used to write a data struct
```

```
In [13]: import csv

with open('sample_data/scores_.csv', 'w') as f:

w = csv.writer(f)

w.writerow(header)

w.writerows(data)
```

Reading csv files

Example: Read the file scores_.csv and print the third line.

['1,Elena,550']

Reading and writing csv files

The same mode specifiers are used as for .txt files.

A reader and writer object are created.

Example: Print the data in the file sample_data/scores.csv and add a new entry.

```
['place', 'name', 'score']
['1', 'Elena', '550']
['2', 'Sajid', '480']
        'Tom', '380']
['3',
['4',
       'Farhad', '305']
'Manesha', '150']
['5',
['6',
       'Carl', '100']
['7',
       'Theo', '105']
['8',
        'Mark',
                  '75']
['9',
       'Grace', '50']
['10', 'Lois', '70']
['10', 'Lois', '70']
         'Lois',
['10',
['10', 'Lois', '70']
['10', 'Lois', '70']
```

```
In []: 1
```