Notation and Terminology

Here are some common phrases that appear in the instructions for computational exercises, with examples of the corresponding code.

Files

- Open X for reading (or writing) using file handle Y:

```
Y = open(X)
Y = open(X,'w')
```

Loops

- Use X to loop over Y:

```
for X in Y:
```

Calling functions and methods

- Set Z to the result of calling F on X and Y:

```
Z = F(X,Y)
```

- Call F on X and Y:

```
F(X,Y)
```

Working with dictionaries

- Set the value of X in Y to Z:

```
Y[X] = Z
```

- Set Z to the value of X in Y:

```
Z = Y[X]
```

- The keys or values of X:

```
X.keys()
X.values()
```

Working with Pandas DataFrames

- Set column C of (dataframe) D to X:

```
D[C] = X
```

- Set X to column C of (dataframe) D:

```
Z = D[C]
```