

```
In [2]: # CSV Files can be read with the use of a csv reader. • This must be imported
        # from the csv module.
import csv
with open('Wk4_modules.csv') as csvfile:
    readcsv = csv.reader(csvfile, delimiter = ',')
    for row in readcsv:
        print("Full row: ", row)
        print("Row[0]:", row[0])
        print("Row[1]:", row[1])
```

```
Full row: ['i»¿module_name', 'module_number', 'module_code', 'semester']
Row[0]: i»¿module_name
Row[1]: module_number
Full row: ['Prof Software Development 1. 2017-18.', '46135', 'COM648', '1']
Row[0]: Prof Software Development 1. 2017-18.
Row[1]: 46135
Full row: ['Professional Dev Software 2. 2017-18.', '46136', 'COM651', '1']
Row[0]: Professional Dev Software 2. 2017-18.
Row[1]: 46136
Full row: ['Data Structures. 2018-19.', '60440', 'COM657', '2']
Row[0]: Data Structures. 2018-19.
Row[1]: 60440
Full row: ['Database Systems. 2018-19.', '60441', 'COM655', '2']
Row[0]: Database Systems. 2018-19.
Row[1]: 60441
Full row: ['Cloud Development for Employability. 2018-19.', '60442', 'COM673', '2']
Row[0]: Cloud Development for Employability. 2018-19.
Row[1]: 60442
Full row: ['Data Science Foundations. 2018-19.', '60443', 'COM659', '3']
Row[0]: Data Science Foundations. 2018-19.
Row[1]: 60443
Full row: ['Project. 2018-19.', '60445', 'COM658', '4']
Row[0]: Project. 2018-19.
Row[1]: 60445
```

```
In [11]: import csv
with open('Wk4_modules.csv', 'r') as file:
    reader = csv.DictReader(file, delimiter = ',')
    for row in reader: # will go through all rows
        sem = row["semester"]
        print("In semester", sem)
        name = row["module_name"]
        print(name)
```

In semester 1
Prof Software Development 1. 2017-18.
In semester 1
Professional Dev Software 2. 2017-18.
In semester 2
Data Structures. 2018-19.
In semester 2
Database Systems. 2018-19.
In semester 2
Cloud Development for Employability. 2018-19.
In semester 3
Data Science Foundations. 2018-19.
In semester 4
Project. 2018-19.

```
In [19]: import csv
with open('Wk4-foodhygienedata.csv', 'r') as file:
    reader = csv.DictReader(file, delimiter = ',')
    #for row in reader: # would print all rows
    for row_num, row in enumerate(reader): # but we print only first 5
        if row_num <= 5:
            name = row["establishmentname"]
            print(name)
```

Heyn Group
Rosemary Lunch Club
John Ross & Co Auctioneers
The Maverick/Boom Box
Maverick
Windsor Recreation & Social Cl

```
In [20]: # The CSV module's DictReader can provide each row as a dict with the headers
         # as keys:
         # • More readable code, automatically skips the header row when accessing data,
         # and can provide a list of all headers with one function!
import csv
with open('Wk4-foodhygienedata.csv', 'r') as file:
    reader = csv.DictReader(file, delimiter = ',')
    #for row in reader: # would print all rows
    for row_num, row in enumerate(reader): # but we will print only first 10
        if row_num <= 10:
            name = row["establishmentname"]
            addressss = row["establishmentaddressline4"]
            rated = row["rating"]
            print("For the establishment", "'" + name + "'", "in", addressss,
                  "it is rated as follows:", rated)
```

For the establishment 'Heyn Group' in Belfast it is rated as follows: 5
 For the establishment 'Rosemary Lunch Club' in Belfast it is rated as follows: 5
 For the establishment 'John Ross & Co Auctioneers' in Belfast it is rated as follows: 4
 For the establishment 'The Maverick/Boom Box' in Belfast it is rated as follows: 5
 For the establishment 'Maverick' in it is rated as follows: 4
 For the establishment 'Windsor Recreation & Social Cl' in Belfast it is rated as follows: 4
 For the establishment 'The Chester Inn' in Belfast it is rated as follows: 4
 For the establishment 'The Sportsman' in Belfast it is rated as follows: 5
 For the establishment 'City Hibernians Club' in Belfast it is rated as follows: 4
 For the establishment 'Forthriver Bowling & Tennis Club' in Belfast it is rated as follows: 5
 For the establishment 'Shawsbridge Sports Association' in Belfast it is rated as follows: