

06 Practical

1. Write code that will generate the following file, saved as q1.txt

File
Output
In
Python

2. Write code that will generate the following CSV file, as q2.csv

Raw File:

Item, Quantity
Apple, 3
Bacon, 2
Orange, 4
Onion, 1

Table Translation:

Item	Quantity
Apple	3
Bacon	2
Orange	4
Onion	1

3. Write code that will read the q2.csv file line by line, and write it to a new file called q3.csv
4. Copy the previous code and modify it such that the new file will contain a 'total' row at the bottom of the file, calculated by adding up all of the quantities, save as q4.csv.

Make sure you are actually calculating the total!

Raw File:

Item, Quantity
Apple, 3
Bacon, 2
Orange, 4
Onion, 1
Total, 10

Table Translation:

Item	Quantity
Apple	3
Bacon	2
Orange	4
Onion	1
Total	10

5. Copy paste the above and modify it so that it will classify the items and add it as a new column. The classification rules are:
- An item is fruit if it is an apple or orange
 - An item is meat if it is bacon
 - Otherwise it is “other”
- Save this as q5.csv

Raw File:

Item, Category, Quantity
 Apple, Fruit, 3
 Bacon, Meat, 2
 Orange, Fruit, 4
 Onion, Other, 1
 Total, 10

Table Translation:

Item	Category	Quantity
Apple	Fruit	3
Bacon	Meat	2
Orange	Fruit	4
Onion	Other	1
Total		10

6. Copy paste the above and modify it so that it will add totals for each category. Save this as q6.csv

Raw File:

Item, Category, Cat Total, Quantity
 Apple, Fruit, 7, 3
 Bacon, Meat, 2, 2
 Orange, Fruit, 7, 4
 Onion, Other, 1, 1
 Total, 10

Table Translation:

Item	Category	Cat Total	Quantity
Apple	Fruit	7	3
Bacon	Meat	2	2
Orange	Fruit	7	4
Onion	Other	1	1
Total			10