

# python\_control\_flow\_real\_data\_practice\_workbook

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## 1 PYTHON CONTROL FLOW REAL DATA PRACTICE WORKBOOK

Have a go at the following questions to practice your new found skills.

If you have any questions, go back to the course videos and have another look. One version of the answers is available in the next download. Remember, there are different ways to write code to get the same answer, so your answer can be correct and different to the answer example!

If you feel stuck and want some in person help, then have a look at the events page to join in a workshop <https://swamphen.co.uk/events>.

## 2 DOWNLOAD DATA FROM LESSON

## 3 READ IN THE DATA

3.0.1 This is done the same way as we read in the data in the last real data practice lesson

3.0.2 The next video covers this if you want to see how this is done without looking at the rest of the answers

```
In [ ]: # read the file into colab
```

```
In [1]: # read the data into the colab
```

## 4 CHANGE THE NUMBER STRINGS INTO INTEGERS

4.0.1 This is possibly the hardest question!

4.0.2 As you can't move forward without running this on your data I have put the answer to this in a separate video, so you can just look at this answer without looking at the rest of the answers.

```
In [2]: # can't use the 'numbers' as they are because they are strings
        # create a copy of the data and call it animal
        # using a nested for loop convert the 'numbers' to integers
```

## 5 ANALYSIS OF DATA SET

```
In [3]: # use a for loop to identify the animals that are warm blooded
        # create a new list called warm_blooded to store the data in

In [4]: # using a nested loop find the animals that can fly and are endangered
        # print the answer to screen

In [5]: # identify the animals that are warm blooded and vertebrates
        # or warm blooded and have hair
        # store these in a new list

In [38]: # are there any repeats of animals in the list that you have to remove?

In [6]: # create a list of vertebrates and a separate list of groups
        # two different for loops

In [7]: # done in one for loop

In [8]: # find the animals that are in both lists
```