

python_while_loops_workbook_answers

September 17, 2020

1 PYTHON WHILE LOOPS WORKBOOK ANSWERS

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>.

```
In [ ]: # make a list of the letters of the alphabet
        # go through this list and whilst you are in the first half
        # of the alphabet print out
        # 'first half of alphabet'

alphabet = ['a','b','c','d','e','f','g','h','i','j','k','l',\
            'm','n','o','p','q','r','s','t','u','v','w','x','y','z']

i = 1
while alphabet[i] < 'n':
    print('first half of alphabet')
    i = i + 1

import string
print(list(string.ascii_lowercase))
```

```
In [ ]: # set up a list of days of the week in mon, tues format
        # set up a list of weekdays
        # set up a while loop to print out 'weekday' whilst days is a weekday

days = ['mon', 'tues', 'wed', 'thurs', 'fri', 'sat', 'sun']
weekdays = ['mon', 'tues', 'wed', 'thurs', 'fri']

item = 0
while days[item] in weekdays:
    print('weekday')
    item += 1
```

```
In [ ]: # using a while loop pad the beginning of the elements in your days
        # list so they
```

```
# are all 8 characters long
# Essentially this is right justifying your list

for day in days:
    while len(day) < 8:
        day = ' ' + day
    print(day)
```

```
In [ ]: # in what month does the 100th day fall?
```

```
days_in_month = [31,28,31,30,31,30,31,31,30,31,30,31]

month = 0
day_count = 0

while day_count < 100:
    day_count = day_count + days_in_month[month]
    month += 1

print(month)
```