Homework: Session 1

Additional resources:
- Python data-types ★ https://realpython.com/python-data-types/
- Strings ★ https://realpython.com/python-strings/
- String formatting (includes two common alternatives to the string formatting method covered in the session) ★ https://realpython.com/python-string-formatting/
- Understanding error messages ★ https://realpython.com/python-traceback/
- Variables ★ https://realpython.com/python-variables/

Question 1

I am building some very high quality chairs and need exactly four nails for each chair. I've written a program to calculate how many nails I need to buy to build these chairs.

```python
chairs = '15'
nails = 4

total_nails = chairs * nails

message = 'I need to buy {} nails'.format(total_nails)

print('You need to buy {} nails'.format(message))
```

When I run the program it tells me that I need to buy 15151515 nails. This seems like a lot of nails.

Is my program calculating the total number of nails correctly? What is the problem? How do I fix it?

Question 2

I'm trying to run this program, but I get an error. What is the error telling me is wrong? How do I fix the program?

```python
my_name = Penelope
my_age = 29

message = 'My name is {} and I am {} years old'.format(my_name, my_age)
print(message)
```

Question 3

I have a lot of boxes of eggs in my fridge and I want to calculate how many omelettes I can make. Write a program to calculate this.

Assume that a box of eggs contains six eggs and I need four eggs for each omelette, but I should be able to easily change these values if I want. The output should say something like "You can make 9 omelettes with 6 boxes of eggs".