365 DataScience Class variables in Python

Step 1 Create and design a class

```python
# Create a class called Patient.
# 'object' is the class from which all other classes inherit.
class Patient(object):

    # In a docstring, describe what the purpose of the class is.
    ''' Register a patient in a medical centre '''

    # Define a shared variable across the whole class that is the same
for each instance of the class.
    # This is what we call a class variable.
    status = 'patient'

    # Create a constructor which controls the varibles that each object
 can have.
    # The 'self' keyword serves as a placeholder for each instance of t
he Patient class.
    def __init__(self, name, age):
        self.name = name
        self.age = age
```

Step 2 Create an object - an instance of the Patient class

```python
# Create two instances of the Patient class and provide two arguments f
or each of them -
# the name and the age of the patient.
alice = Patient('Alice', 42)
bob = Patient('Bob', 18)
```

Step 3 Retrieve information from the objects

```python
# Retrieve information from the obejcts.
# Note that the 'status' variable is the same for both instances.
alice.name, alice.age, alice.status, bob.name, bob.age, bob.status
```

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