In [ ]:
```python
# Exercise 1 - Create a class called Scoop with a single attribute called flavor

class Scoop:
    def __init__(self, flavor):
        self.flavor = flavor


s1 = Scoop('chocolate')
s2 = Scoop('vanilla')
s3 = Scoop('coffee')

print(s1.flavor) # chocolate

for s in [s1, s2, s3]:
    print(s.flavor) # chocolate, vanilla, coffee
```

```
chocolate
chocolate
vanilla
coffee
```

In [ ]:
```python
'''
    Exercise 2 - Creata a class called Person class -- name, e-mail address, and

    Create several people, and iterate over them in a list
    and print their names (similar to a phone book)

    Change the e-mail address of one person, and show
    that it has changed by printing your list a second time
'''

class Person:
    def __init__(self, name, email, phone):
        self.name = name
        self.email = email
        self.phone = phone

p1 = Person('John', 'john@me.com', '123-456-7890')
p2: Person = Person('Jane', 'jane@me.com', '123-456-7890')
p3: Person = Person('Jack', 'jack@me.com', '123-456-7890')

for person in [p1, p2, p3]:
    print(person.name, person.email, person.phone)

p2.email = 'jane.doe@me.com'
print()

for person in [p1, p2, p3]:
    print(person.name, person.email, person.phone)
```

```
John john@me.com 123-456-7890
Jane jane@me.com 123-456-7890
Jack jack@me.com 123-456-7890

John john@me.com 123-456-7890
Jane jane.doe@me.com 123-456-7890
Jack jack@me.com 123-456-7890
```

In [ ]:

```
'''
    Exercise 3 - Create a BankAccount class. It'll have a single
    attribute (per instance), transactions -- a list of floats

    Every time you deposit, append a positive float
    Every time you withdraw, append a negative float

    (a) create two different accounts
    (b) add a number of transactions +/- to each account
    (c) show, for each account, the number of transactions
    and the average amount per transaction, as well as
    the current balance.  (assume it starts at 0)

'''

class BankAccount:
    def __init__(self):
        self.transactions = []

a1 = BankAccount()
a2 = BankAccount()

a1 = [1.22, 3.45, -5.67, 7.89, -9.01, 8.22, 7.33, 6.44, 5.55, 4.66, 3.77, 2.88,
a2 = [2.22, 4.44, -6.66, 8.88, -10.10, 9.22, 8.33, 7.44, 6.55, 5.66]
print (a1,'\n',a2,'\n')

# print required information
print('a1: ', len(a1), 'transactions, average: ', round(sum(a1)/len(a1), 2), 'ba
print('a2: ', len(a2), 'transactions, average: ', round(sum(a2)/len(a2), 2), 'ba
```

```
[1.22, 3.45, -5.67, 7.89, -9.01, 8.22, 7.33, 6.44, 5.55, 4.66, 3.77, 2.88, 1.9
9]
 [2.22, 4.44, -6.66, 8.88, -10.1, 9.22, 8.33, 7.44, 6.55, 5.66]

a1:  13 transactions, average:  2.98 balance:  38.72
a2:  10 transactions, average:  3.6 balance:  35.98
```