

Week 4 Exercise

TOTAL POINTS 10

```
1. Consider this code:
                                                                                                                           1 point
            class Contact:
    """ A contact with a first name, a last name, and an email address. """
                 def __init__(self, first_name, last_name, email_address):
    """ (Contact, str, str, str) -> NoneType
                    Initialize this Contact with first name first_name, last name last_name, and email address email_address.
                self.first_name = first_name
self.last_name = last_name
self.email_address = email_address
   Select the code fragment(s) that create and initialize a Contact using the constructor (method __init__).
   1 paul = Contact('Paul', 'Gries', 'paul@example.com')
          1 contact = Contact()
            paul = Contact(contact, 'Paul', 'Gries', 'paul@example.com')
   1 paul = Contact()
                paul.first_name = 'Paul'
                paul.last_name = 'Gries'
               paul.email_address = 'paul@example.com'
            info = ['Paul', 'Gries', 'paul@example.com']
            3 paul = Contact(info)
2. This question uses class <code>Contact</code> from the previous question.
   Variable jen refers to a Contact object. Select the correct way to print jen's email address.
   print(jen.self.email_address)
   print(jen.email_address)
   print(self.email_address)
    print(jen[2])
3. This question uses class {\tt Contact} from the previous questions.
                                                                                                                           1 point
   Another method has been added to class Contact:
       Add phone number telephone_num for this contact.
                self.phone_number = telephone num
   For a variable {\tt khaled} that refers to a {\tt Contact} object, which code fragment correctly calls {\tt method} add_{\tt phone\_number}
    khaled.add_phone_number('555-1111')
    khaled.add_phone_number() = '555-1111'
       khaled.add_phone_number(khaled, '555-1111')
   add_phone_number(khaled, '555-1111')
4. This question uses class Contact from the previous questions, and also uses types str, float, and list.
                                                                                                                          1 point
   Here are several code fragments. In each fragment, there is a pair of method calls. In some pairs, the two method calls
   are equivalent to each other, and in the others, the two method calls are not equivalent to each other. Select the co
fragment(s) in which the method calls are equivalent to each other.
   Assume that variable c refers to a {\tt Contact} and that variable L refers to a {\tt list}.
           1 L.index(3)
            3 list.index(3)
          1 c.add_phone_number('555-1111')
            c.add_phone_number(c1, '555-1111')
   1 (0.6).as_integer_ratio()
```

```
3 float.as integer ratio(float, 0.6)
                 str.replace('abc 123', '123', '246')
'abc 123'.replace('123', '246')
           1 c.add_phone_number('555-1111')
   \checkmark
               Contact.add_phone_number(c, '555-1111')
5. This question uses class Contact from the previous questions.
                                                                                                                        1 point
   Variable rorik refers to a Contact object with instance variables first_name, last_name and email_address that
   refer to 'Rorik', 'Henrikson' and 'rorik@example.com' respectively
   What is produced when str(rorik) is called?
   A string containing information about the object that rorik refers to. This string contains both its type and its
   O 'Rorik Henrikson <rorik@example.com>'
   O'Henrikson, Rorik <rorik@example.com>'
   A string containing the types and memory addresses of the objects that first_name, last_name, and
        email_address refer to
6. This question uses class Contact from the previous questions.
                                                                                                                         1 point
   Another method has been added to class Contact:
            def __str__(self):
    """ (Contact) -> str
                Return a string representation of this contact.
               return '{0} {1} <{2}>'.format(self.first_name,
    self.last_name, self.email_address)
   Variable rorik refers to a Contact object with instance variables first_name, last_name, and email_address that
    refer to 'Rorik', 'Henrikson' and 'rorik@example.com' respectively
   What is produced when str(rorik) is called?
   O A string containing information about the object that rorik refers to. This string contains both its type and its
        memory address.
   'Rorik Henrikson <rorik@example.com>'

    A string containing the types and memory addresses of the objects that last_name, first_name, and

        email_address refer to.
   O'Henrikson, Rorik <rorik@example.com>'
7. This question uses class <code>Contact</code> from the previous questions.
                                                                                                                         1 point
   Consider this code:
            class Email:
                  """ An email with a list of recipients, a subject and a body. """
               def __init__(self, recipients, subject, body):
    """ (Email, list of Contact, str, str) -> NoneType
                    Initialize this Email with recipients, subject and body.
                   self.recipients = recipients
self.subject = subject
self.body = body
   Which of the following can be used to create an Email object?
   ~
           1 student1 = Contact('Hugh', 'Z.', 'hugh@fakedomain.com')
               student2 = Contact('Kathryn', 'Z.', 'kathryn@fakedomain.com')
               student3 = Contact('Karin', 'Z.', 'karin@fakedomain.com')
               students = [student1, student2, student3]
                subject = 'LTP2: E4 is posted!'
               body = 'Hello,\nE4 is posted. Good luck!\n Paul and Jen'
           13   new email = Email(students, subject, body)
           1 :act('Kathryn', 'Z.', 'kathryn@fakedomain.com')], 'Hello', 'Hi there!\n Bye for now.')
   new_email = Email()
           new_email = Email('Hello', 'Hi there!\n Bye for now.')
8. This question uses classes Contact and Email from the previous questions.
                                                                                                                         1 point
  This method is added to class Email:
```

4 dof ++ /colf).

```
e: __sur__(seli).
""" (Email) -> str
               Return a string representation of this email.
               result = 'To: '
for contact in self.recipients:
    result = result + '{0}, '.format(contact)
               result = result + '\nSubject: {0}'.format(self.subject) result = result + '\n{0}'.format(self.body) return result
  Variable message refers to an Email object created with:
 • recipients: [Contact('Paul', 'Gries', 'paul@example.com'), Contact('Jen', 'Campbell', 'jen@example.com')]
  • subject: '2nd MOOC', and
  • body 'Hi!\nI hope your 2nd MOOC is going well!\nBye :-)'.
  What is printed when print(message) is executed?
   To: Contact('Paul', 'Gries', 'paul@example.com'), Contact('Jen', 'Campbell', 'Jen@example.com')
       Subject: 2nd MOOC
       I hope your 2nd MOOC is going well!
       Bve :-)
   To: [Paul Gries <paul@example.com>, Jen Campbell <jen@example.com>]
       Subject: 2nd MOOC
       I hope your 2nd MOOC is going well!
   O To: [Contact('Paul', 'Gries', 'paul@example.com'), Contact('Jen', 'Campbell', 'Jen@example.com')]
       Subject: 2nd MOOC
       I hope your 2nd MOOC is going well!
       Bye :-)
   To: Paul Gries <paul@example.com>, len Campbell <ien@example.com>,
       I hope your 2nd MOOC is going well!
9. Which of the following is {\tt not} a special method of {\tt object}?
                                                                                                                       1 point
  __str__
   __lower__
   __ne__
   O --eq--
10. Consider this code:
                                                                                                                       1 point
       What should the blank (\_) in the type contract be replaced with?
   ○ NoneType
   O str
   Author
   O It is not possible to tell.
I, Shou-Yi (Ray) Hung, understand that submitting another's work as my own can result in zero credit
                                                                                                                6 P P
```

for this assignment. Repeated violations of the Coursera Honor Code may result in removal from this course or deactivation of my Coursera account.

Learn more about Coursera's Honor Code

Submit