Python Programming

Homework 2

Jordan Diaz

Solution #1:

Terminal Session for problem 1 for funs.py

(('mul', 10, 'def mul(x, y):\n\tz = x * y\n\treturn z\n'), ('print_pretty', 16, 'def print_pretty(a):\n\tprint("The result is {:.3f}.".format(a))\n'), ('sum', 3, 'def sum(x, y):\n\t"""Adds two numbers\n\tReturns the sum."""\n\treturn x + y\n'))

rocess finished with exit code

```
file name = open(file name, "r")
              write to this = open(write to this, "w")
19 .
20 .
21 .
22 .
              print("Exception type: {} : the error message was {}
              print("You do not have access to read the file: ", file name)
28 .
```

```
60 .
                      lst of positions.append(count)
                      lst of def names.append(curr name)
82 .
                  final lst.append(tple)
83.
84 .
85 .
86.
          except FileNotFoundError as er:
98 .
```

Solution#2:

```
Jordan Diaz, This program teaches a handful of python concepts
print(pythagorean triples)
lst of strings = [(len(elements), elements.capitalize()) for elements in lst
print(lst of strings)
lst = ["Jules Verne", "Alexandre Dumas", "Maurice Druon"]
final lst = ["{}, {}".format(new elements[1], new elements[0]) for
new elements in
print(final lst)
print(concatenate(": ", "one", "two", "three"))
print(concatenate(" and ", "bonny", "Clyde"))
print(concatenate(" and ", "single"))
```

Terminal Session for problem 2

```
[(3, 4, 5), (4, 3, 5), (5, 12, 13), (6, 8, 10), (7, 24, 25), (8, 6, 10), (8, 15, 17), (9, 12, 15), (9, 40, 41), (10, 24, 26), (11, 60, 61), (12, 5, 13), (12, 9, 15), (12, 16, 20), (12, 35, 37), (13, 84, 85), (14, 48, 50), (15, 8, 17), (15, 20, 25), (15, 36, 39), (16, 12, 20), (16, 30, 34), (16, 63, 65), (18, 24, 30), (18, 80, 82), (20, 15, 25), (20, 21, 29), (20, 48, 52), (21, 20, 29), (21, 28, 35), (21, 72, 75), (24, 7, 25), (24, 10, 26), (24, 18, 30), (24, 32, 40), (24, 45, 51), (24, 70, 74), (25, 60, 65), (27, 36, 45), (28, 21, 35), (28, 45, 53), (28, 96, 100), (30, 40, 50), (30, 72, 78), (32, 24, 40), (32, 60, 68), (33, 44, 55), (33, 56, 65), (35, 12, 37), (35, 84, 91), (36, 15, 39), (36, 27, 45), (36, 48, 60), (36, 77, 85), (39, 52, 65), (39, 80, 89), (40, 9, 41), (40, 30, 50), (40, 42, 58), (40, 75, 85), (42, 40, 58), (42, 56, 70), (44, 33, 55), (45, 24, 51), (45, 28, 53), (45, 60, 75), (48, 14, 50), (48, 20, 52), (48, 36, 60), (48, 55, 73), (48, 64, 80), (51, 68, 85), (52, 39, 65), (54, 72, 90), (55, 48, 73), (56, 33, 65), (56, 42, 70), (57, 76, 95), (60, 11, 61), (60, 25, 65), (60, 32, 68), (60, 45, 75), (60, 63, 87), (60, 80, 100), (63, 16, 65), (63, 60, 87), (64, 48, 80), (65, 72, 97), (68, 51, 85), (70, 24, 74), (72, 21, 75), (72, 30, 78), (72, 54, 90), (72, 65, 97), (75, 40, 85), (76, 57, 95), (77, 36, 85), (80, 18, 82), (80, 39, 89), (80, 60, 100), (84, 13, 85), (84, 35, 91), (96, 28, 100)]

['Verne, Jules', 'Dumas, Alexandre', 'Druon, Maurice']

one: two: three

bonny and Clyde
```

Process finished with exit code θ

Solution#3:

```
def add contact(contacts, info tuple):
           contacts.remove(contact)
def find contact(contacts, name=None, nickname=None):
           writer = csv.writer(file)
```

```
def read from csv(file name):
                contacts in file.append((line[0], line[1], line[2]))
       file.close()
```

Terminal Session for problem 3:

```
Success: Test 1;
Success: Test 2;
Success: Test 3;
Success: Test 4;
Success: Test 5;
Success: Test 6;
Success: Test 7;
Success: Test 8;

Process finished with exit code 0
```

Test.csv file

```
Beyonce Knowles, bey, 561-1234321

Cardi B, Belcalis, 305-4399521

Earl Simmons, DMX, 305-1010101
```

```
def read from top casts (file name, director movies dict,
            reader = csv.reader(file)
                director movies dict[director].add(title)
                1st of tuples.append((the director, the actor,
```

```
file.close()
                lst of top rated.append(title)
       file.close()
def read from top grossing(file name, box office dict):
           reader = csv.reader(file)
       print("The file: ", file name, " does not exist.")
```

```
file.close()
dict of actor)
```

Terminal Session for problem 4

```
#1. ('Steven Spielberg', 'Harrison Ford', 4)
#2. ('Clint Eastwood', 'Clint Eastwood', 3)
#3. ('Christopher Nolan', 'Christian Bale', 3)
#4. ('Gore Verbinski', 'Johnny Depp', 3)
#5. ('Charles Chaplin', 'Charles Chaplin', 3)

#1. ('James Cameron', '760505847', 'Avatar')
#2. ('James Cameron', '658672302', 'Titanic')
#3. ('Joss Whedon', '623279547', 'The Avengers')
#4. ('Christopher Nolan', '533316061', 'The Dark Knight')
#5. ('George Lucas', '474544677', 'Star Wars: Episode I - The Phantom Menace')

Process finished with exit code 0
```