CSE 337 Assignment 1 Wei Tang 108979235 python2 MacOS

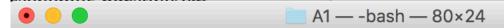
Note: All input file are in a1-source.zip. feel free to use your own file.

Q1:

Code File: q1.py

Input file: Q1-input.html

Terminal:



[Weis-MacBook-Pro:A1 weitang\$ python q1.py

Please Enter File Name:Q1-input.html

output file created : Q1-input\_ouput.html

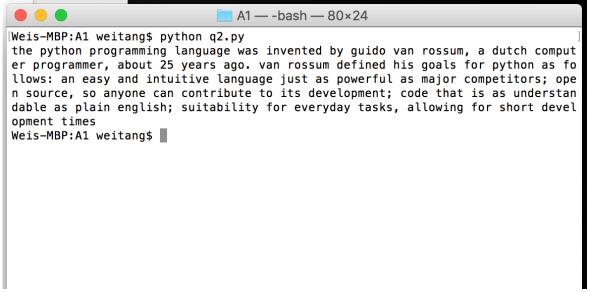
Weis-MacBook-Pro:A1 weitang\$

output file created in current directory.

Q2:

Code File: q2.py

## Terminal:



decrypted context are printed to screen

```
Q3:
Written answer:
i:
I predict c = [[1,2],3]
ii:
the result doesn't match my prediction.
explanation:
when using slice, only level 1 values are made true copy, so the statement
c=b[:]
only make a true copy of the value 3, doesn't make true copy of a.
a[0] = 7 would result c = [[7,2],3]
b[1] = 8 only affect b doesn't affect c
iii & iv:
see code file: q3.py
execute file using:
python q3.py
```

## terminal:

```
A1 — -bash — 80×24
[Weis-MacBook-Pro:A1 weitang$ python q3.py
i, ii, iii answers in comment
iii:
after make true copy of C
change a[0]=7 and b[1]=8
a = [7, 2] b = [[7, 2], 8]
after change were made
c is [[1, 2], 3]
iv:
level 1: [1, 2, 3]
level 2: [[1, 2, 3], 4]
level 3: [[[1, 2, 3], [[1, 2, 3], 4]], 4]
truecopy [[[1, 2, 3], [[1, 2, 3], 4]], 4]
after change level 1 and level 2:
level 3: [[[9, 2, 3], [[9, 2, 3], 8]], 4]
truecopy: [[[1, 2, 3], [[1, 2, 3], 4]], 4]
Weis-MacBook-Pro:A1 weitang$
```

```
Q4:
i:
(a):
if n = 2 and r = 1
line will be executed:
9 if n>r: break
it will break the for loop
so it will not execute the following else statement:
else:
 print "Wow, you are lucky\n"
and nothing will be printed because n < 2 doesn't hold true
(b):
if n = 1 and r = 1
line will be executed:
8 if n == r: continue
it will skip the rest of the for loop and
jump right to the next conditional test case of n = 2
(c):
if n = 2 and r = 2
8 if n == r: continue
this line will executed
continue will skip the rest of the for loop and
jump right back to the conditional test case
however, the for loop literation already end when n = 2
so the for loop will end without break
so it will execute the else statement
else:
 print "Wow, you are lucky\n"
the terminal will print the message
(d):
if n = 0 and r = 2:
10 print "x"
will be executed because n==r and n>r will be false
so no continue or break in for loop.
after that it will get to the next iteration
```

## ii:

the program will execute else statement when the for loop ends without break in this case during the iteration of n = 0, 1, 2, r can not be less then n

Q5:

Code file: q5.py

Terminal:



Q6:

Code file :q6.py

Input file: first.txt, second.txt

Terminal:



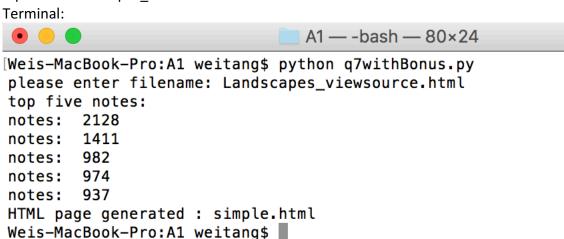
Weis-MacBook-Pro:A1 weitang\$ python q6.py first.txt second.txt
old.txt , new.txt , current.txt created
Weis-MacBook-Pro:A1 weitang\$ ■

New.txt, old.txt, current.txt are created in current directory

New.txt will contain records only in second file Old.txt will contain records only in first file Current.txt will contain records in both files Q7:

Code file: q7withbonus.py

Input file: landscapes\_viewsource.html



highest five notes are printed to screen bonus part are generated to a file name: simple.html

Q8:

Code file: q8.py

Terminal:

```
Weis-MacBook-Pro:A1 weitang$ python q8.py
list1 ['a', 'b', 'c', 'd', 'e']
list2 ['d', 'e', 'f', 'g', 'h']
differnece: ['a', 'b', 'c']
union : ['d', 'e', 'f', 'g', 'h', 'a', 'b', 'c']
Weis-MacBook-Pro:A1 weitang$
```

Functions are defined in code file.