

Week 08 Practice Quiz

CSCI040: ~~Computing for the Web~~ Introduction to Hacking

Total Score: /10

Printed Name:

Collaboration Policy:

1. You MAY use any printed or handwritten notes.
2. You MAY NOT use a computer or any other electronic device.
3. You MAY NOT discuss this quiz with another human being who has not completed the quiz. This includes:
 - (a) collaborating during the quiz, and
 - (b) telling a student in a different section the quiz was easy/hard.

NOTE: On the real quiz, there will be at least 2 of the “harder” problems from the practice question bank.

Problem 1. What is the output of the following code:

```
names = [ 'alice', 'bob', 'charlie', 'dave', 'eve' ]
accumulator = []
for i,name in enumerate(names):
    text = name + ' is number ' + str(i)
    accumulator.append(text)
print('accumulator[3]=', accumulator[3])
```

Problem 2. What is the output of the following code:

```
x = 42 if 'A' > 'a' else 24
print('x=', x)
```

Problem 3. What is the output of the following code:

```
xs = [ x*x for x in range(10) ]  
num = xs[5]  
print( 'num=', num)
```

Problem 4. What is the output of the following code:

```
xs = [ x*x for x in range(10) if x%2 ]  
num = xs[3]  
print( 'num=', num)
```

Problem 5. What is the output of the following code:

```
tweets = [
    { "source": "Twitter_Web_Client"
      , "text": "From_Donald_Trump: _Wishing_everyone_a_wonderful_holiday_&a_
        happy,_healthy,_prosperous_New_Year._Let\u2019s_think_like_champions_
        in_2010!"
      , "retweet_count": 28
    },
    { "source": "Twitter_Web_Client"
      , "text": "Trump_International_Tower_in_Chicago_ranked_6th_tallest_
        building_in_world_by_Council_on_Tall_Buildings_&_Urban_Habitat_http://
        bit.ly/sqvQq"
      , "retweet_count": 33
    },
    { "source": "Twitter_Web_Client"
      , "text": "Wishing_you_and_yours_a_very_Happy_and_Bountiful_Thanksgiving!"
      , "retweet_count": 13
    },
    { "source": "Twitter_for_iPhone"
      , "text": "RT_@realDonaldTrump: _Happy_Birthday_@DonaldJTrumpJr!\nhttps://t
        .co/uRxyCD3hBz"
      , "retweet_count": 9529
    },
    { "source": "Twitter_for_iPhone"
      , "text": "Happy_Birthday_@DonaldJTrumpJr!\nhttps://t.co/uRxyCD3hBz"
      , "retweet_count": 9529
    },
    { "source": "Twitter_for_Android"
      , "text": "Happy_New_Year_to_all,_including_to_my_many_enemies_and_those_
        who_have_fought_me_and_lost_so_badly_they_just_don't_know_what_to_do..
        Love!"
      , "retweet_count": 141853
    },
    { "source": "Twitter_for_Android"
      , "text": "Russians_are_playing_@CNN_and_@NBCNews_for_such_fools_--funny_
        to_watch,_they_don't_have_a_clue!_@FoxNews_totally_gets_it!"
      , "retweet_count": 23213
    },
    { "source": "Twitter_for_iPhone"
      , "text": "Join_@AmerIcan32,_founded_by_Hall_of_Fame_legend_@JimBrownNFL32
        _on_1/19/2017_in_Washington,_D.C._\u2026_https://t.co/9WJZ8iTCQV"
      , "retweet_count": 7366
    }
]

trump_tweets = [tweet for tweet in tweets if 'trump' in tweet['text'].lower()]
print('len(trump_tweets)=', len(trump_tweets))
```