

Week 08 Quiz Question Bank

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

NOTE: The quiz will be 5 questions long, similar to the practice quiz. The questions on the quiz will be similar to the practice quiz OR this 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 = 'number_' + str(i) + '_is_' + name
    accumulator.append(text)
print('accumulator[-1]=', accumulator[-1])
```

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

```
sentence = 'python_is_weird*'
accumulator = ''
for i, char in enumerate(sentence):
    if char == '*' and sentence[i-1] == '_':
        accumulator += '_'
    elif char == '*':
        accumulator += '_!'
    else:
        accumulator += char
print('accumulator=', accumulator)
```

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

```
x = 1 if 2 > 3 else 4
print( 'x=', x)
```

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

```
x = 'if' if '<' > 'else' else 'if'
print( 'x=', x)
```

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

```
names = [ 'alice', 'bob', 'charlie', 'dave', 'eve' ]
greetings = [ name[0].upper() + name[1:].lower() for name in names ]
greeting = greetings[1]
print( 'greeting=', greeting)
```

Problem 6. What is the output of the following code:

```
xs = [ x**x for x in range(-3,3) ]
num = xs[5]
print( 'num=', num)
```

Problem 7. What is the output of the following code:

```
xs = [ x for x in range(-3,3) if x ]  
num = xs[3]  
print( 'num=', num)
```

Problem 8. What is the output of the following code:

```
sentence = "This is an example sentence with a few words in it."  
words = [ word.lower() for word in sentence.split() if 't' in word ]  
print( 'len(words)=', len(words))
```

Problem 9. What is the output of the following code:

```
sentence = "This is an example sentence with a few words in it."  
xs = [ x.upper() for x in sentence if 't' in x ]  
print( 'xs[1]=', xs[1])
```

Problem 10. What is the output of the following code:

```
sentence = "This is an example sentence with a few words in it."  
small_words = [ word.lower() for word in sentence.split() if len(word) <= 2]  
print( 'len(small_words)=', len(small_words))
```

Problem 11. What is the output of the following code:

```
xss = [ [ i for i in range(x) ] for x in [2, 3, 4] ]  
x = xss[-1][-2]  
print( 'x=', x)
```

Problem 12. What is the output of the following code:

```
xss = [ [ i for i in range(x) ] for x in [2, 3, 4] if x%2 == 1 ]  
x = xss[-1][-2]  
print( 'x=', x)
```

Problem 13. What is the output of the following code:

```
xss = [ [ i for i in range(x) if i%3== 1 ] for x in [4, 5, 6] if x%2 == 1 ]  
x = xss[-1][-1]  
print( 'x=', x)
```

Problem 14. What is the output of the following code:

```
xss = [ [ i for i in range(x) if x%3== 1 ] for x in [4, 5, 6] if x%2 == 1 ]  
print( 'xss=', xss)
```

Problem 15. 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
    }
]

popular_tweets = [tweet for tweet in tweets if tweet['retweet_count'] > 100]
print('len(popular_tweets)=', len(popular_tweets))

```