100

ryan
Other

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Score

100% • 60 / 60
scored in CodePath TIP101: Unit 3 Assessment, Version A - Summer 2024 in 33 min 22 sec on 21 Jun 2024 16:10:19 PDT

Candidate Information

Email	concepting@protonmail.com
Test	CodePath TIP101: Unit 3 Assessment, Version A - Summer 2024
Candidate Packet	View
Taken on	21 Jun 2024 16:10:19 PDT
Time taken	33 min 22 sec/ 90 min
Work Experience	< 1 years
Invited by	CodePath

Suspicious Activity detected

Code similarity

Code similarity
1 question

Skill Distribution

There is no associated skills data that can be shown for this assessment

Tags Distribution

There is no associated tags data that can be shown for this assessment

Questions

Status	No.	Question	Time Taken	Skill	Score
✓	1	What will be the output of the following Python code? Multiple Choice	3 min 43 sec	-	5/5
✓	2	Consider the following Python code snippet. What will happen when it is executed? Multiple Choice	1 min 4 sec	-	5/5

✓	3	Reverse String Multiple Choice	1 min 29 sec	-	5/5
✓	4	Valid Month Multiple Choice	13 min	-	5/5
✓	5	Character Count in Strings Coding	5 min 51 sec	-	20/20
✓	6	Ransom Note Coding	8 min 9 sec	-	20/20

1. What will be the output of the following Python code?

✓ Correct

Multiple Choice

Question description

```
word = "encourage"
char_count = {}

for char in word:
    if char not in char_count:
        char_count[char] = 1
    else:
        char_count[char] += 1

char_count['e'] += 2
print(char_count['e'])
```

Candidate's Solution

Options: (Expected answer indicated with a tick)

- ○ 2
- ○ 3
- ● 4 ✓
- ○ KeyError

No comments.

2. Consider the following Python code snippet. What will happen when it is executed?

Correct

Multiple Choice

Question description

```
greeting = "Hello, World!"
greeting[7] = 'w'
print(greeting)
```

Candidate's Solution

Options: (Expected answer indicated with a tick)

- ○ The string greeting will be updated to "Hello, world!"<!-- notionvc: 75b2fa4e-0196-465e-9b8b-961df5bead61 -->
- ● ** A TypeError will be raised because strings are immutable<!-- notionvc: 25d3f494-c42d-4a40-bd44-1f82181be242 --> ** ✓
- ○ The code will execute successfully without errors, but the greeting string will remain unchanged<!-- notionvc: b076d6d0-7e50-4d55-8576-b615d527b864 -->
- ○ A SyntaxError will be raised due to incorrect syntax<!-- notionvc: 1e00e85b-7034-401a-ad3b-75cdb2c26058 -->

No comments.

3. Reverse String

✓ Correct

Multiple Choice

Question description

Given the predefined string **s = "Python"**, which of the following code snippets correctly reverses **s** and then appends **" rocks!"** to it?

Candidate's Solution

Options: (Expected answer indicated with a tick)

- [x] <pre> <code class="language-python">s = "Python" reversed_s = s[::-1] result = reversed_s + " rocks!"</code></pre>

- [ ] <pre> <code class="language-python">s = "Python" s = s + " rocks!" result = s[::-1]</code> </pre>

- [ ] <pre> <code class="language-python">s = "Python" result = s[::-1] result += " skcor!" </code></pre>

- [ ] <pre> <code class="language-python">s = "Python" s = "skcor! " + s[::-1] result = s</code> </pre>

No comments.

4. Valid Month

Correct

Multiple Choice

Question description

Given a date string in the format **"DD-MM-YYYY"**, which of the following code snippets correctly checks if the month part of the date is valid (i.e., between **01** and **12** inclusive)?

Candidate's Solution

Options: (Expected answer indicated with a tick)

- [x] <pre> <code class="language-python">month = date[3:5] is_valid_month = int(month) >= 1 and int(month) <= 12</code></pre>
- [ ] <pre> <code class="language-python">day, month, year = date.split('-') is_valid_month = 1 <= month <= 12</code></pre>
- [ ] <pre> <code class="language-python">is_valid_month = 1 < int(date[3:5]) < 12</code> </pre>
- [ ] <pre> <code class="language-python">month = date.split('-')[1] is_valid_month = month > 0 and month < 13</code></pre>

No comments.

5. Character Count in Strings

Correct

Coding

Question description

Write a function that takes a string and returns a dictionary with each character from the string as keys and their frequencies as values. Ignore white spaces and make the count case-insensitive (i.e., 'A' and 'a' are considered the same).
Constraints: You will only have alphabet letters, no numbers or symbols.

```
# Input: 'Hello World'
# Output: {'h': 1, 'e': 1, 'l': 3, 'o': 2, 'w': 1, 'r': 1, 'd': 1}
```

```
# Input: 'Treacherous test'
# Output: {'t': 3, 'r': 2, 'e': 3, 'a': 1, 'c': 1, 'h': 1, 'o': 1, 'u': 1, 's': 2}
```

Candidate's Solution Language used: **Python 3**

```python
#!/bin/python3

import math
import os
import random
import re
import sys



#
# Complete the 'char_count' function below.
#
# The function is expected to return a DICTIONARY.
# The function accepts STRING str as parameter.
#

def char_count(str):
    # Write your code here
    new_dict = {}

    for i in str:
        if i != ' ':
            i = i.lower()
            if i in new_dict:
                new_dict[i] += 1
            else:
                new_dict[i] = 1

    return new_dict

if __name__ == '__main__':
    fptr = open(os.environ['OUTPUT_PATH'], 'w')

    string = input()

    if len(string) > 55:
        chunks = string.split(", ")
```

```
        list_of_lists = [list(map(str, chunk.split())) for chunk in chunks]
        result = [char_count(" ".join(lst)) for lst in list_of_lists]
    else:
        result = char_count(string)

    fptr.write(str(result) + '\n')

    fptr.close()

```

TESTCASE	DIFFICULTY	TYPE	STATUS	SCORE	TIME TAKEN	MEMORY USED
Testcase 0	Easy	Sample	Success	0	0.0465 sec	10.4 KB
Testcase 1	Easy	Sample	Success	0	0.0404 sec	10.4 KB
Testcase 2	Easy	Hidden	Success	0	0.0332 sec	10.4 KB
Testcase 3	Easy	Hidden	Success	0	0.0379 sec	10.3 KB
Testcase 4	Easy	Hidden	Success	20	0.0519 sec	10.4 KB

No comments.

6. Ransom Note

Correct

Coding

Question description

Given two strings **message** and **magazine**, return **True** if **message** can be constructed by using the letters from **magazine** and **False** otherwise. Each letter in **magazine** can only be used once in **message**.

```
# Input: message = "a", magazine = "b"
# Output: False

# Input: message = "cba", magazine = "abc"
# Output: True
```

Candidate's Solution

Language used: **Python 3**

```python
#!/bin/python3

import math
import os
import random
import re
import sys



#
# Complete the 'ransom_note' function below.
#
# The function is expected to return a BOOLEAN.
# The function accepts following parameters:
#  1. STRING message
#  2. STRING magazine
#

def ransom_note(message, magazine):
    # Write your code here

    count = {}

    for i in magazine:
        if i in count:
            count[i] += 1
        else:
            count[i] = 1
```

```
30
31      for i in message:
32          if i in count:
33              return True
34          else:
35              return False
36
37
38  if __name__ == '__main__':
39      fptr = open(os.environ['OUTPUT_PATH'], 'w')
40
41      temp = input()
42
43      if len(temp) > 65:
44          chunks = temp.split(", ")
45          list_of_lists = [list(map(str, chunk.split())) for chunk in chunks]
46          result = [ransom_note(lst[0], lst[1]) for lst in list_of_lists]
47      else:
48          t = temp.split()
49          result = ransom_note(t[0], t[1])
50
51      fptr.write(str(result) + '\n')
52
53      fptr.close()
54
```

TESTCASE	DIFFICULTY	TYPE	STATUS	SCORE	TIME TAKEN	MEMORY USED
Testcase 0	Easy	Sample	Success	0	0.037 sec	10.3 KB
Testcase 1	Easy	Sample	Success	0	0.0281 sec	10.4 KB
Testcase 2	Easy	Hidden	Success	0	0.0355 sec	10.3 KB
Testcase 3	Easy	Hidden	Success	0	0.0341 sec	10.4 KB

Testcase 4	Easy	Hidden	Success	0	0.039 sec	10.3 KB
Testcase 5	Easy	Hidden	Success	20	0.0301 sec	10.4 KB

No comments.