Python Test Question Paper aviral.np12@gmail.com Switch account Draft saved * Indicates required question Email * aviral.sharma@perficient.com What is the output of print("Python"[-6])? * 1 point Error What is the correct way to concatenate two lists list1 and list2 in Python? * list1 + list2 list1.append(list2) list1.extend(list2) list1.concat(list2)

What is the output of print(3 == "3")? *	1 point
O True	
False	
○ Error	
None	
What is the output of print("Hello"[::-1])? *	1 point
O "Hello"	
olleH"	
○ "IleH"	
○ Error	
<pre>import numpy as np * arr = np.array([1, 2, 3, 4, 5]) condition = arr > 3 result = arr[condition] print(result)</pre>	1 point
O [1, 2, 3]	
[4, 5]	
[True, True, True, False, False]	
[False, False, True, True]	

Write a Python script to read a text file data.txt, count the number of lines, * 5 points words, and characters, space, count of each vowels greater than 3 in the file and then write these counts to another file output.txt

```
def count_vowels(text):
  vowels = "aeiouAEIOU"
  vowel_counts = {}
  for vowel in vowels:
    vowel_counts[vowel] = 0
  for char in text:
    if char in vowels:
       vowel_counts[char] += 1
  result = {}
  for vowel, count in vowel_counts.items():
    if count > 3:
       result[vowel] = count
  return result
input_filename = "data.txt"
output_filename = "output.txt"
with open(input_filename, 'r') as file:
  data = file.read()
lines = 0
for char in data:
  if char == '\n':
    lines += 1
lines += 1
words = len(data.split())
characters = 0
for char in data:
  if char != '\n':
     characters += 1
spaces = 0
for char in data:
  if char == ' ':
     spaces += 1
vowel_counts = count_vowels(data)
with open(output_filename, 'w') as file:
  file.write("Number of lines: {}\n".format(lines))
  file.write("Number of words: {}\n".format(words))
  file.write("Number of characters: {}\n".format(characters))
  file.write("Number of spaces: {}\n".format(spaces))
```

```
for vowel, count in vowel_counts.items():
    file.write("{}: {}\n".format(vowel, count))

print("Counts have been written to {}".format(output_filename))
```

Write a Python code that takes 2 Lists and returns True if all elements in * 5 points the list are unique, otherwise print a message accordingly.

```
def check_same_elements(list1, list2):
  list1.sort()
  list2.sort()
  if len(list1) != len(list2):
     return False
  for i in range(len(list1)):
     if list1[i] != list2[i]:
       return False
  return True
list1 = input("Enter elements for list1: ").split()
list2 = input("Enter elements for list2: ").split()
# Convert input strings to integers (assuming elements are numeric)
list1 = [int(num) for num in list1]
list2 = [int(num) for num in list2]
# Call the function to check if lists have same elements
if check_same_elements(list1, list2):
  print("true")
else:
  print("List1 and list2 are not unique")
```

```
Create a DataFrame with missing values given below:
                                                                                        5 points
  'ProductID': [101, 102, 103, 104, 105],
  'ProductName': ['Apple', 'Banana', 'Carrot', 'Doughnut', 'Eggplant'],
  'Category': ['Fruit', 'Fruit', 'Vegetable', 'Bakery', None],
  'Price': [1.2, None, 0.7, 1.5, 1.1],
  'Stock': [30, 50, None, 15, 10]
  a. Fill missing values with specified value and print
  b. Sort the DataFrame by Price in descending order
import pandas as pd
import numpy as np
# Create the DataFrame with missing values
data = {
  'ProductID': [101, 102, 103, 104, 105],
  'ProductName': ['Apple', 'Banana', 'Carrot', 'Doughnut', 'Eggplant'],
  'Category': ['Fruit', 'Fruit', 'Vegetable', 'Bakery', None],
  'Price': [1.2, None, 0.7, 1.5, 1.1],
  'Stock': [30, 50, None, 15, 10]
}
df = pd.DataFrame(data)
# a. Fill missing values with specified value and print
filled_df = df.fillna({'Category': 'Unknown', 'Price': df['Price'].mean(), 'Stock':
df['Stock'].median()})
print("DataFrame with filled missing values:")
print(filled_df)
print()
# b. Sort the DataFrame by Price in descending order
sorted_df = df.sort_values(by='Price', ascending=False)
print("DataFrame sorted by Price in descending order:")
print(sorted_df)
```

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