

CONTEST - WEEK 5

NOTE:

- No need to submit anywhere, just keep track of all the PDF you made in a specific folder.
- Compare your solution with the solution I'll provide, in case of doubts, kindly reach out to me.
- You may get assignment solution in format of PDF or VIDEO solution, depending on the difficulty level.

Q1. Given a list of strings, concatenate them into a single string separated by spaces. For example, given the input ["Hello", "World", "Python"], the output should be "Hello World Python".

Make a list on your own.

Don't use the **JOIN** function.

Q2. Write a program to rotate the characters in a string by a given number of positions. For example, given the input "abcdef" and rotation of 2, the output should be "efabcd".

Ask string and rotation from the user.

Q3. Write a Python program to convert a given string to all uppercase if it contains at least 2 uppercase characters in the first 4 characters.

Input: pyTHon

Output: PYTHON

Input: helLo

Output: helLo

Input: gOOD

Output: GOOD

Q4. Create a dictionary that counts the frequency of words in a given string. Ask string from user.

Example 1

Input String: "The sun is shining and the weather is nice"

Output:

```
{  
    'The': 1,  
    'sun': 1,  
    'is': 2,  
    'shining': 1,  
    'and': 1,  
    'the': 1,  
    'weather': 1,  
    'nice': 1  
}
```

Example 2

Input String: "The cat and the dog played in the park The cat chased the dog"

Output:

```
{  
    'The': 2,  
    'cat': 2,  
    'and': 1,
```

```
'dog': 2,  
'played': 1,  
'in': 1,  
'the': 3,  
'park': 1,  
'chased': 1  
}
```

Q5. Write a Python program to map two lists into a dictionary. Everything in both lists should be unique.

Example 1

```
list1 = ['red', 'green', 'blue']
```

```
list2 = ['#FF0000', '#008000', '#0000FF']
```

Output: {'red': '#FF0000', 'green': '#008000', 'blue': '#0000FF'}

Q6. Write a Python program to convert string values of a given dictionary into integer/float data types.

Example 1:

Original list:

```
[{'x': '10', 'y': '20', 'z': '30'}, {'p': '40', 'q': '50', 'r': '60'}]
```

Output:

```
[{'x': 10, 'y': 20, 'z': 30}, {'p': 40, 'q': 50, 'r': 60}]
```

Example 2:

Original list:

```
[{'x': '10.12', 'y': '20.23', 'z': '30'}, {'p': '40.00', 'q': '50.19', 'r': '60.99'}]
```

Output:

```
[{'x': 10.12, 'y': 20.23, 'z': 30.0}, {'p': 40.0, 'q': 50.19, 'r': 60.99}]
```