Class Exercise:

String exercises

1. Write a Python program to check whether the n-th element exists in a given list.

Input: [1, 2, 3, 4, 5, 6]

Sample Output: 6

2. Write a Python program to replace the last element in a list with another list.

Input:

num1 = [1, 3, 5, 7, 9, 10]

num2 = [2, 4, 6, 8]

Sample Output:

[1, 3, 5, 7, 9, 2, 4, 6, 8]

3. Write a Python program to concatenate elements of a list.

Input:

color = ['red', 'green', 'orange']

Sample Output:

red-green-orange

redgreenorange

4. Write a Python program to select the odd items from a list.

Input:

x = [1, 2, 3, 4, 5, 6, 7, 8, 9]

Sample Output:

[1, 3, 5, 7, 9]

5. Write a Python program to split a list into different variables.

Input:

color = [("Black", "#000000", "rgb(0, 0, 0)"), ("Red", "#FF0000", "rgb(255, 0, 0)"),("Yellow", "#FFFF00", "rgb(255, 255, 0)")]

Sample Output:

('Black', '#000000', 'rgb(0, 0, 0)')

('Red', '#FF0000', 'rgb(255, 0, 0)')

('Yellow', '#FFFF00', 'rgb(255, 255, 0)')

6. Write a Python program to append a list to the second list.

Input:

list1 = [1, 2, 3, 0]

list2 = ['Red', 'Green', 'Black']

Sample Output: [1, 2, 3, 0, 'Red', 'Green', 'Black']

7. Write a Python program to find the index of an item in a specified list.

Input: [10, 30, 4, -6]

Sample Output: 1

8. Write a Python program to convert a list of characters into a string.

Input:

original\_list = [10, 22, 44, 23, 4]

new\_list = ?

Sample Output:

[10, 22, 44, 23, 4]

[10, 22, 44, 23, 4]

9. Write a Python program to find the maximum and minimum values of the three given lists.

Input:

nums1 = [2,3,5,8,7,2,3]

nums2 = [4,3,9,0,4,3,9]

nums3 = [2,1,5,6,5,5,4]

Sample Output:

Original lists:

[2, 3, 5, 8, 7, 2, 3]

[4, 3, 9, 0, 4, 3, 9]

[2, 1, 5, 6, 5, 5, 4]

Maximum value of the said three lists:

9

Minimum value of the said three lists:

0

10. Write a Python program to append the same value/a list multiple times to a list/list-of-lists.

Sample Output:

Add a value(7), 5 times, to a list:

['7', '7', '7', '7', '7']

Add 5, 6 times, to a list:

[1, 2, 3, 4, 5, 5, 5, 5, 5, 5]

Add a list, 4 times, to a list of lists:

[[1, 2, 5], [1, 2, 5], [1, 2, 5], [1, 2, 5]]

Add a list, 4 times, to a list of lists:

[[5, 6, 7], [1, 2, 5], [1, 2, 5], [1, 2, 5], [1, 2, 5]]