py - QUESTIONS on List and LC :

Q1. Program to Find the Largest Number in a List.

Input - list1 = [1,2,3,4,2,3,2]

Output - 4 is the Largest of all elements in the list.

Q2. Program to Find the Second Largest Number in a List.

Input - list1 = [1,2,3,4,2,3,2]

Output - 3 is the Second Largest of elements in the list

Q3. Program to Merge Two Lists and Sort it.

Input - List1 = [1,3,2] & List2=[6,5,4]

Output - sorted_lst = [1,2,3,4,5,6]

Q4. Program to Sort a List According to the Length of the Elements.

Input - (1) "Python" (2) "is" (3) "good"

Output - sorted_subl = ["is","good","Python"]

Q5. Program to Put Even and Odd elements in a List into Two Different Lists.

Input   - List1 = [1,2,3,4,2,3,2]

Output   - List_odd = [1,3,3]

List_even = [2,4,2,2]

Q6. Program to Sort the List According to the Second Element in Sub list.

Input – a = [['A',34],['B',21],['C',26]]

Output – sorted_subl = [['B', 21], ['C', 26], ['A', 34]]

Q7. Program to find the cumulative sum of elements of a List.

Input - [23, 5, 23, 34, 4]

Output - [23, 28, 51, 85, 89]

Q8. Programe to remove the Duplicate Items from a List.

Input - [23, 5, 23, 34, 4]

Output - [23, 5, 34, 4]

Questions on LC –

Part - 1

Q1. St = 'Print only the words that start with s in this sentence'.

Q2. Use a List Comprehension to create a list of all numbers between 1 and 50 that are divisible by 3 ?

Q3. In a string make a list with all the words of even length.
str1="The road to success and the road to failure are almost exactly the same".

Q4. Write a program that prints the integers from 1 to 100. But for multiples of three print "Fizz" instead of the number, and for the multiples of five print "Buzz". For numbers which are multiples of both three and five print "FizzBuzz".

Q5. Use List Comprehension to create a list of the first letters of every word in the string below:

Q6. Write a Python function that takes a list and returns a new list with unique elements of the first list.

Part - 2

Q1. Create a new list with square of all the elements of the following list?
Input - list_1 = [5,4,6,3,2,4]
Output - list_2 = [25.16,36,9,4,16]

Q2. Create a new list with all the odd or even elements of the following list?
Input - list_1 = [1,5,4,6,3,2,7,8]
Output - list_even = [4,6,2,8]

Q3. Create a new list with all the digits of the following string?
Input - str1 = "Date of birth = 23/10/1976"
Output - list_dig = ['2', '3', '1', '0', '1', '9', '7', '6']

Q4. Create a new list with lower case characters of all the elements of the following list?
Input - lst1 = ['A','R','Q','D','M','S']
Output - lst2 = ['a', 'r', 'q', 'd', 'm', 's']

Q5. Write a Python program to multiply all the items in a list.
Input - lst1 = [2,1,3,4]
Output – 24

Q6. Create the new list where the string length is 2 or more and the first and last character are same from a given list of strings.
Input - lst1 = ['abc','imuli','xyz','aba','1221']
Output - lst2 = ['limuli','1221','aba']

Q7. Program to get a list, sorted in increasing order by the last element in each tuple from a given list of non-empty tuples.
Sample List - [(2, 5), (1, 2), (4, 4), (2, 3), (2, 1)]
Output - [(2, 1), (1, 2), (2, 3), (4, 4), (2, 5)]

Good Job !