Python interview questions

1. Index = [‘python’, ‘C++’, ‘scala]

Write a piece of code that will extract both index position and its corresponding value too for all the items in in Index

1. Given an integer find the reverse of the integer. Integer can be negative or positive.

For example: input: 132 , output: 231

Input: -456, output: -654

1. Given a string find the first non-repeating character in it and return its index. If it does not exist return -1. All the input strings are in lower case. For example: input: alphabet, output: 1, input: abracadabra, output: 4

1. Given a non-empty string s, check if it’s a palindrome. Output should be a Boolean value say True or False
2. Given an array move all the 0 to the last and get # 12 to the first. For example:

array1 = [0,1,0,3,12]

array2 = [1,7,0,0,8,0,10,12,0,4]

ouput:

[12, 1, 3, 0, 0]  
[12, 1, 7, 8, 10, 4, 0, 0, 0, 0]

1. Given 2 sentences, identify the matched and mis-matched words with in the sentences and list as 2 different sets

Sample:

sentence1 = 'We are really pleased to meet you in our city'

sentence2 = 'The city was hit by a really heavy storm'

Output:  
(['The','We','a','are','by','heavy','hit','in','meet','our',  
'pleased','storm','to','was','you'])  
(['city', 'really'])