**Lab: Lists, strings, control structures**

1. Write a Python function that takes a sequence of numbers and determines whether all the numbers are different from each other.
2. Write a Python program to print a long text, convert the string to a list and print all the words and their frequencies.
3. Write a Python program to find the digits which are absent in a given mobile number.
4. Write a Python program to print the number of prime numbers which are less than or equal to a given integer.
5. Write a Python program that accepts six numbers as input and sorts them in descending order.

**Input:**  
Input consists of six numbers n1, n2, n3, n4, n5, n6 (-100000 <= n1, n2, n3, n4, n5, n6 <= 100000). The six numbers are separated by a space.  
Input six integers:  
15 30 25 14 35 40  
After sorting the said integers:  
40 35 30 25 15 14

1. Write a Python program which reads a text (only alphabetical characters and spaces.) and prints two words. The first one is the word which occurs most frequently in the text. The second one is the word which has the maximum number of letters.

**Note:** A word is a sequence of letters which is separated by the spaces.

**Input:**A text is given in a line with following condition:  
a. The number of letters in the text is less than or equal to 1000.  
b. The number of letters in a word is less than or equal to 32.  
c. There is only one word which is arise most frequently in given text.  
d. There is only one word which has the maximum number of letters in given text.  
**Input text:** Thank you for your comment and your participation.  
**Output:** your participation.

Given a list of numbers and a number k, write a Python program to check whether the sum of any two numbers from the list is equal to k or not.    
For example, given **[1, 5, 11, 5]** and **k = 16**, return true since 11 + 5 is 16.  
**Sample Input:**([12, 5, 0, 5], 10)  
([20, 20, 4, 5], 40)  
([1, -1], 0)  
([1, 1, 0], 0)  
**Sample Output:**  
True  
True  
True  
False