ASSIGNMENT QUESTIONS

1. Read two lists from the user. Two lists contain the names of students??
   - Get the Names which are there in both lists??
   - Get the Names which are there in atleast one list??
   - Get the Names which are there in List1 not there in List2??
   - Get the names which are there in List2 not there in List1??

2. Take a list of Numbers or Names with repetitive values??
   - Get a list as output??
   - Each sublist has the number and how many times it is there in the list??
   - The output should be in sorted order based on count??
   - If the count is equal different numbers .sort them based on numbers??

     Example: [23, 45, 23, 77, 67, 45, 45, 2, 3, 3, 2, 3]

     Output : [[3,3], [45,3], [2,2], [23,2], [67,1], [77,1]]

3. **[PERMUTATIONS]**
   A permutation of a list is another list with the same elements, but in a possibly different order.
   Example: [1, 2, 1] is a permutation of [2, 1, 1], but not of [1, 2, 2]. Write a function is permutation (list1, list2): bool that returns True if its Arguments are permutations of each other.

4. **Write a python function that checks whether a passed string is palindrome or not??**
5. **Write a python program to count the number of even and odd numbers from a series of numbers??**
   Sample numbers: numbers= [1, 2, 3, 4, 5, 6, 7, 8, 9]
   Expected output:
   Number of even numbers: 4
   Number of odd numbers: 5

6. **Write a python program that prints all the numbers from 0 to 6 except 3 and 6?**
   Note: use 'continue 'statement.
   Expected output: 0 1 2 4 5

7. **Write a python function to check whether the given number is prime or not??**

8. **Write a python function to check whether the given number is Adam number or not??**

   EXAMPLE:

   Input: 12

   Output: Adam Number

Explanation: 12*12=144

Reverse of 12 is 21→ 21*21=441

Reverse of 144==441