Assignment

1. Implement Fibonacci series using recursion.
2. Write a Python program to find all the unique words and count the frequency of occurrence from a given list of strings.
3. Write a Python program that finds all pairs of elements in a list whose sum is equal to a given value.
4. Write a Python program to find the two numbers whose product is maximum among all the pairs in a given list of numbers
5. Write a Python function that takes a number as a parameter and checks whether the number is prime or not.
6. Write a Python function to print the even numbers from a given list.

7. Write a function that will take a given string and reverse the order of words.

   Ex:

   "Hello world" →"world Hello"

8. Given an integer x, return true if x *is a* palindrome*, and* false otherwise.

   Example 1:

   Input: x = 121

   Output: true

   Explanation: 121 reads as 121 from left to right and from right to left.

   Example 2:

   Input: x = -121

   Output: false

   Explanation: From left to right, it reads -121. From right to left, it becomes 121-. Therefore, it is not a palindrome.

   Example 3:

   Input: x = 10

   Output: false

   Explanation: Reads 01 from right to left. Therefore, it is not a palindrome.

9. Write a Python function that checks whether a passed string is a palindrome or not.

10. Write a Python function to create and print a list where the values are the squares of numbers between 1 and 30 (both included).

11. Write a Python function to generate all permutations of a list.

12. Write a Python program to access a function inside a function.