**Questions On Python Basic & Advance**

1.Implement a Python script that checks if two strings are anagrams of each other (i.e., contain the same characters with the same frequency).

2.Create a Python script that uses variables to simulate a simple calculator. The program should handle addition, subtraction, multiplication, and division with input from the user.

3.Write a Python function that takes a list of integers and returns a new list with each element squared, but only if it is greater than 10.

4.Implement a program that checks if a given number is a power of two using bitwise operators.

5.Write a Python function that merges two dictionaries by adding values for common keys. If the key is present in both dictionaries, add their values together.

6.Write a Python program that takes three integers as input and prints them in non-decreasing order without using built-in sorting methods.

7.Write a Python function that takes a positive integer n and prints the Fibonacci sequence up to the nth term using a for loop.

8.Write a Python function that performs division of two numbers. If the denominator is zero, catch the exception and print an error message.

9.Write a Python program that extracts all dates in the format "DD-MM-YYYY" from a given text string using regular expressions.

text = "John was born on 12-05-1995 and Mary on 30-08-1999."

10.Write a Python class Employee with attributes name, salary, and department. Implement a method to calculate the yearly salary and a class method to count the total number of employees created.

11.What is the difference between is and == operators in Python? Provide an example where using one instead of the other can lead to unexpected results.

12.What is the difference between \*args and \*\*kwargs in Python functions? Provide an example where both are used in a single function.

13.What is the purpose of the else block in Python’s exception handling? How does it differ from the finally block, and when would you use each?

14.Explain how you can write a decorator that takes arguments.

15.How to Create, Read, and Write to a Text File in Python (with Examples)