1. Factorial Calculation

Question: Can you create a Python program to calculate the factorial of a given number?

1. FizzBuzz

Question: Write a Python program that prints numbers from 1 to 15. For multiples of 3, print "Fizz" instead of the number, for multiples of 5 print "Buzz", and for numbers which are multiples of both 3 and 5, print "FizzBuzz".

1. Fibonacci Series

Question: Create a Python program to generate the Fibonacci series of a specified length.

1. Check Prime Number

Question: Write a Python program to determine if a given number is a prime number or not.

1. Basic Input/Output

**Question:** Write a Python program that takes a user's name as input and prints a greeting message along with the entered name.

1. Arithmetic Operations

**Question:** Create a Python program that asks the user to enter two numbers and performs all arithmetic operations (addition, subtraction, multiplication, division, and modulus) on them.

1. Conditional Statements

**Question:** Write a Python program to check whether a given number is positive, negative, or zero.

1. Loops

**Question:** Create a Python program to print the multiplication table of a given number using a loop.

1. Functions

**Question:** Define a Python function that takes two parameters as input and returns the sum of those numbers.

1. Lists and Iterations

**Question:** Write a Python program to find the maximum and minimum elements in a list of numbers.

1. File Handling

**Question:** Create a Python program to read content from a text file, count the occurrences of each word, and display the word count.

1. String Manipulation

**Question:** Write a Python program that accepts a string from the user and counts the number of uppercase and lowercase letters.

1. Recursion

**Question:** Define a recursive Python function to calculate the factorial of a number.

1. Error Handling

**Question:** Write a Python program that handles a ValueError exception when converting a user-input string to an integer and prints an error message if the input is not a valid number.

1. Matrix Operations

**Question:** Develop a Python program to perform matrix addition and multiplication.

1. Dictionary Manipulation

**Question:** Write a Python program to merge two dictionaries and sort them based on keys.

1. Classes and Objects

**Question:** Create a Python class representing a student with attributes like name, roll number, and marks. Implement a method to display the student's details.

1. Inheritance

**Question:** Define a Python class "Vehicle" with attributes like make, model, and year. Create a subclass "Car" inheriting from "Vehicle" with additional attributes like fuel type and horsepower.

1. Sorting Algorithms

**Question:** Implement the bubble sort algorithm in Python to sort a list of integers.

1. Data Structures

**Question:** Write a Python program to implement a stack and perform push, pop, and display operations.

1. File Encryption/Decryption

**Question:** Create a Python program to encrypt and decrypt a text file using a simple substitution cipher.