

Python Test 17/11/23

1. Create a Python program that reads a file named "data.txt" containing integers separated by commas. Sum all the integers and print the total.
2. Write a Python program to append new data (any string) to an existing file named "info.txt".
3. Create a class named Rectangle with attributes length and width. Include a method to calculate the area of the rectangle.
4. Explain the difference between a class and an object in Python. (With example)
5. Create a class Animal with a method sound(). Then, create a child class Dog inheriting from Animal and override the sound() method to print "Woof".
6. Explain the concept of multiple inheritance in Python with an example.
7. Write a Python program that checks if a number is even or odd using an if...else statement.
8. Explain the use of the elif statement in Python.
9. Create a Python program to print the Fibonacci sequence up to a specified number of terms.
10. Explain the difference between for and while loops in Python.