

Assignment(Marks will be awarded)

Create modules separately for the following programs. The required file names are shown as bold letters?

- a) Checking number a is even or odd using conditional expression. (**ED.py**)
- b) Counting number of digits in b . (**CountD.py**)
- c) Checking number c is divisible by 6 or not. (**Div6.py**)
- d) Finding the sum of digits of number d . (**SumD.py**)
- e) Checking number e is an Armstrong number or not. (**Arm.py**)
- f) Checking number f is a Palindrome number or not. (**Pal.py**)
- g) Calculating the factorial of number g . (**Fact.py**)
- h) Checking number h is a prime number or not. (**Prime.py**)
- i) Generating Fibonacci series up to the range i . (**Fib.py**)
- j) Implementation of a calculator (**calc.py**), which will do the operations add, sub, mul and divide operation on two numbers x and y . Create separate sub module (**calc_oper.py**) which contains functions for add, sub, mul and divide operations.

The values of a , b , c , d , e , f , g , h , i , x and y need to be initially stored in a dictionary **D_Numbers**. Write a python file main.py which calls all the above modules for executing the programs. Use **import** and **from** command in your program wherever required. Submit me the entire files as early as possible.