Assignment 2

Q1. Implement a choice based arithmetic calculator (1-add,2-sub,3-mul,4-div etc), by implementing functions.

Q2. Implement income tax calculator by considering best possible parameters (gender, senior citizen benefits, exemption for investment and other possible consideration). Make use of if-else ladder.

Q3. Implement a system to calculate the Grade of the student based on marks in n subjects.

Q4. Implement a C program to calculate GCD and LCM of 2 input number.

Q5. Implement a C program to check given number is prime or not.
(eg. 1, 2, 3, 5. 7, 11, 13, 17 ...)

Q6. Implement a C program to print Fibonacci series (0, 1, 1, 2, 3, 5, 8, 13, 21, 34 .....)

Q7. Implement a C program to check given no. is armstrong or not
(eg 153 is armstrong number (153=1^3+5^3+3^3))

Q8. Implement a C program to check given no. is perfect no. or not
(eg 6, 28, 496, 8128 (perfect no is equal to half the sum of
all its positive divisors for 6 it is (1+2+3+6) / 2 is 6)

Q9. Implement a C program to have recursive sum of digits in a number (eg:- 9785 ==> 9+7+8+5 ==> 29 ==> 2+9 ==> 11 ==> 1+1 ==> 2)

Q10. Implement a C program to print list of prime numbers.