Experiment 4 : Programs demonstrating the Concept of Functions

Program 1: Function to find the max of three numbers

Program 2: Function to find the sum of all the numbers in a list

Program 3: Function to find the product of all the numbers in a list

Program 4: Function to reverse a string

Program 5: Function to find the factorial of a non-negative number.

Program 6: Function to check whether a number is in a given range.

Program 7: Function that takes a number as a parameter and check whether a number is Prime or not.

Program 8: Function to check whether a number is Palindrome or not.

Program 9: Function to check whether a number is Perfect or not.

{Perfect Number: A Positive integer, that is equal to the sum of its proper positive divisors,i.e. the sum of its positive divisors excluding the number itself. Or we can say, A perfect Number is half the sum of all of its positive divisors (including itself).
eg. Perfect Number 6, 1+2+3 = 6, (1+2+3+6)/2 = 6;
eg. Perfect Number 28, (1+2+4+7+14) = 28,
(1+2+4+7+14+28)/2 = 28}