

Lab Assignment-15: User Defined Function

Q#	Experiment Details	Input	Output
1.	WAP to add two numbers entered through the keyboard by using a suitable user defined function.	Set 1: Enter number: 17 10 two Set 2: Enter number: 5 -12 two	Set 1: Sum of 17 and 10 = 27 Set 2: Sum of 5 and -12 = -7
2.	WAP to find the factorial of a number n by using a suitable user defined function.	Set 1: Enter a number: 5 Set 2: Enter a number: 0	Set 1: Factorial of 5 = 120 Set 2: Factorial of 0 = 1
3.	A Fibonacci sequence is defined as follows: the first and second terms in the sequence are 0 and 1. Subsequent terms are found by adding the preceding two terms in the sequence ($F_i = F_{i-1} + F_{i-2}$). WAP to find out the value of n^{th} term of the Fibonacci sequence by writing a suitable user defined function.	Set 1: Enter Fibonacci term serial number: 2 Set 2: Enter Fibonacci term serial number: 8	Set 1: Fibonacci term serial number: 2 Fibonacci number: 1 Set 2: Fibonacci term serial number: 8 Fibonacci number: 13
4	Write a C program to determine a number is prime or not using a function named as "PRIME".	Set 1: Enter an integer: 7 Set 2: Enter an integer: 6	Set 1: 7 is prime. Set 2: 6 is not prime.
5	Write a C program to perform swapping of two integers using a function SWAP.	Set 1: Enter num1: 10 Enter num2: 20 Set 2: Enter num1: 15 Enter num2: 30	Set 1: Before Swapping num1=10 num2=20 After Swapping num1=20 num2=10 Set 2: Before Swapping num1=15 num2=30

			After Swapping num1=30 num2=15
--	--	--	--------------------------------------

Home Assignments (Practice Problems)

Q#	Experiment Details	Input	Output
1.	WAP to test whether a number entered through the keyboard is a number in the Fibonacci sequence or not. (Using function)	Set 1: Enter the number to test whether it is in Fibonacci sequence or not: 10 Set 2: Enter the number to test whether it is in Fibonacci sequence or not: 8	Set 1: Entered number: 10 Number is in Fibonacci sequence: No Set 2: Entered number: 8 Number is in Fibonacci sequence: Yes
2.	WAP by using user defined function to calculate the sum of the digits of any given integer.	Set 1: Enter a number: 589 Set 2: Enter a number: 25	Set 1: Sum of the digits is 22 Set 2: Sum of the digits is 7
3	WAP to print all prime numbers between 1 to 100 using function.		Prime numbers between 1 to 100: 2, 3, 5, 7, 11, 13, 17, 19, 23, 29, 31, 37, 41, 43, 47, 53, 59, 61, 67, 71, 73, 79, 83, 89, 97
4.	Write a function that will return the counting of Zeros in a Positive Integer	Set 1: Input: 110560 Set 2: Input: 178655	Set 1: No of zeros: 2 Set 2: No of zeros: 0
5.	WAP to test whether a number n is palindrome number or not.	Set 1: Enter a number to test for palindrome: 123 Set 2: Enter a number to test for palindrome: 1551	Set 1: Entered number: 123 Number is not palindrome. Set 2: Enter a number to test for palindrome: 1551 Number is palindrome.