Week 3: Programs on User Defined Functions

Name:	SRN:	Section:
	Date:	Week Number:

1	**Write a function to reverse a given number and check whether a given number is palindrome or not.** **Input:** Enter the number 121 **Output:** The Number 121 is Palindrome **Input:** Enter the number **Output:** 123 Number 123 is Not Palindrome
	Program:
	Output Screenshot:
2	**Write a C program to compute GCD of three numbers using functions.** **Input:** Enter the values of a,b and c 10 4 16 **Output:** GCD(10,4,16)=2
	Program:
	Output Screenshot:

3	Write a program in C to check Armstrong and perfect numbers using functions. **Input:** Input any number: 153 **Output:** The 153 is an Armstrong number. The 153 is not a Perfect number. **Input:** Input any number: 28 **Output:** The 28 is not an Armstrong number. The 28 is a Perfect number.
	Program:
	Output Screenshot:
4	Write a program in C to check whether a number is a prime number or not using function **Input:** Input a positive number : 12 **Output:** The number 12 is not a prime number **Input:** Input a positive number : 13 **Output:** The number 13 is a prime number
	Program:

	Output Screenshot:
5	Write a program in C to convert decimal number to octal number using function **Input:** Input any decimal number : 25 **Output:** Equivalent Octal Number: 17 **Input:** Input any decimal number : 15 **Output:** Equivalent Octal Number: 31
	Program:
	Output Screenshot:
6	Write a program in C to find the sum of the series 1!/1+2!/2+3!/3+4!/4+5!/5 using function. **Output:** The sum of the series is : 34
	Program:
	Output Screenshot:

1	**Practice Programs** Write a program to display Fibonacci series in C within a range using a function **Input:** Enter range: 5 **Output:** The fibonacci series is: 0 1 1 2 3 5
	Program:
	Output Screenshot:
2	Write a program to check triangle validity when angles are given using functions. **Input:** Enter three angles of triangle: 30 40 60 **Output:** Triangle is not valid **Input:** Enter three angles of triangle: 30 60 90 **Output:** Triangle is valid
	Program:

	Output Screenshot: