

KARPAGAM ACADEMY OF HIGHER EDUCATION

(Deemed to be University)
(Established Under Section 3 of UGC Act 1956)
Coimbatore - 641021.
(For the candidates admitted from 2018 onwards)

DEPARTMENT OF COMPUTER SCIENCE, CA & IT

SUBJECT : Programming Fundamentals Using C / C++ Practical SEMESTER: I L T P C SUBJECT CODE: 18CSU111 CLASS: I B.Sc.CS 0 0 4 2

LIST OF PRACTICAL

- 1. WAP to print the sum and product of digits of an integer.
- 2. WAP to reverse a number.
- 3. WAP to compute the sum of the first n terms of the following series S = 1+1/2+1/3+1/4+...
- 4. WAP to compute the sum of the first n terms of the following series S = 1-2+3-4+5...
- 5. Write a function that checks whether a given string is Palindrome or not. Use this function to find whether the string entered by user is Palindrome or not.
- 6. Write a function to find whether a given no. is prime or not. Use the same to generate the prime numbers less than 100.
- 7. Write a macro that swaps two numbers. WAP to use it.
- 8. WAP to print a triangle of stars as follows (take number of lines from user):

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- 9. WAP to perform following actions on an array entered by the user:
 - i) Calculate and print the sum and average of the elements of array
 - ii) Print the maximum and minimum element of array

- 10. Write a program to find sum of n elements entered by the user. To write this program, allocate memory dynamically using malloc() / calloc() functions or new operator.
- 11. WAP to display FibonaCSUi series (i)using recursion
- 12. WAP to calculate Factorial of a number (i)using recursion
- 13. WAP to calculate GCD of two numbers (i) with recursion
- 14. Create a class Triangle. Include overloaded functions for calculating area. Overload assignment operator and equality operator.
- 15. Create a structure Student containing fields for Roll No., Name, Class, Year and Total Marks. Create 10 students and store them in a file.
- 16. Copy the contents of one text file to another file, after removing all whitespaces.
- 17. Given two ordered arrays of integers, write a program to merge the two-arrays to get an ordered array.
- 18. Write a menu driven program to perform following operations on strings:
 - a) Show address of each character in string
 - b) Concatenate two strings without using streat function.
 - c) Concatenate two strings using streat function.