

ASUTOSH COLLEGE

Dept: Computer Science General (3+4+6)

CMS-G-CC-2-2-P Sem-2-Core Course-2 Practical assignment

Session: 2019-2020

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1. WAP to print the sum and product of digits of an integer.
2. WAP to reverse a number taking user input.
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 print a pyramid of stars taking number of lines from user.
5. Write a function that checks whether a given number 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. WAP to perform following actions on an integer array entered by the user :
  - i) Print the even-valued elements
  - ii) Print the odd-valued elements
  - iii) Calculate and print the sum and average of the elements of array
  - iv) Print the array in reverse order

The program should present a menu to the user and ask for one of the options. The menu should also include options to re-enter array and to quit the program.

8. WAP to calculate GCD of two numbers (i) with recursion (ii) without recursion.
9. Write a menu driven program to perform following operations on strings:
  - a) Show address of each character in string
  - b) Concatenate two strings using strcat function
  - c) Compare two strings
  - d) Calculate length of the string
10. Write a program to find sum of n elements entered by the user. To write this program, allocate memory dynamically using malloc() / calloc() function.
11. Add two complex numbers using structures.
12. Copy the contents of one text file to another file.