

**CS 107 COMPUTER PROGRAMMING LAB**

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**Course description and Objectives :**

To familiarize the students in preparation of documents and presentations with office automation tools. A comprehensive problem solving skills through C language is offered to enable the students to write diversified solutions using this language.

**Course Outcomes:**

1. Able to write, compile and debug programs in C language.
2. Able to formulate problems and implement algorithms in C.
3. Able to effectively choose programming components that efficiently solve computing problems in real-world

**List of Experiments:**

1. Write A Program to find simple Interest, compound interest
2. Write A Program to covert given temperature from C to F & F to C
3. Write A Program to check Entered number is positive or zero or Negative
4. Write A Program to print given year is Leap year or not
5. Write A Program to do arithmetic operations using switch
6. Write A Program to find biggest among 3 Numbers
7. Write A Program to print grade of a student for 5 sub avg>70(A), 60-70(B), 50-60(C),<50(F)
8. Write A Program to find Roots fo Quadratic Equation
9. Write A Program to find sum of individual digits of a given number
10. Write A Program to check whether the given number is PALINDRAM or not
11. Write A Program to check whether the given number is PERFECT or not
12. Write A Program to check whether the given number is PRIME or not
13. Write A Program to check whether the given number is ARMSTRONG or not
14. Write A Program to check whether the given number is STRONG or not
15. Write A Program to find sum of Natural Numbers

16. Write A Program to print the following triangle
- ```
    1
   2 3
  4 5 6
 7 8 9 10 etc.....
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17. C Program to find Factorial of Given number using Recursive and Non Recursive Functions.
18. Write A Program to print Fibonacci Series upto given limit using recursive, Non recursive
19. Write program in C for determining the minimum and maximum and sum of elements of an array of 'n' elements and searching for a given element.
20. C Program for computing range, mean and standard deviation of a given numeric dataset.
21. Write A Program in C for performing addition, subtraction, multiplication and transpose operations on matrices.
22. Write program to perform the following string operations on the given string. a) string length b) string copy c) string concatenation d) string comparison e) reverse string f) sub string
23. Write A Program to read student record (no, name, marks1, marks2, marks3, marks4, marks5, calculate average and Grade ) and display the student record.
24. Write A Program to do arithmetic operations using pointers.
25. Write A Program to create two data files and copy the content of these two data files as a single file in another new file?