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CS8261 C PROGRAMMING LABORATORY

DETAILED SYLLABUS

OBJECTIVES:

- To develop programs in C using basic constructs.
- To develop applications in C using strings, pointers, functions, structures.
- To develop applications in C using file processing.

LIST OF EXPERIMENTS:

- 1. Programs using I/O statements and expressions.
- 2. Programs using decision-making constructs.
- 3. Write a program to find whether the given year is leap year or Not? (Hint: not every centurion year is a leap. For example, 1700, 1800 and 1900 is not a leap year)
- 4. Design a calculator to perform the operations, namely, addition, subtraction, multiplication, division and square of a number.
- 5. Check whether a given number is Armstrong number or not?
- 6. Given a set of numbers like <10, 36, 54, 89, 12, 27>, find sum of weights based on the following conditions.
 - 5 if it is a perfect cube.
 - 4 if it is a multiple of 4 and divisible by 6.
 - 3 if it is a prime number.

Sort the numbers based on the weight in the increasing order as shown below

- <10, its weight>, <36, its weight><89, its weight>
- 7. Populate an array with height of persons and find how many persons are above the average height.
- 8. Populate a two-dimensional array with height and weight of persons and compute the Body Mass Index of the individuals.
- 9. Given a string "a\$bcd/fg" find its reverse without changing the position of special characters.

(Example input: a@gh%; j and output: j@hg%; a)

- 10. Convert the given decimal number into binary, octal and hexadecimal numbers using user defined functions.
- 11. From a given paragraph perform the following using built-in functions:
 - a. Find the total number of words.
 - b. Capitalize the first word of each sentence.
 - c. Replace a given word with another word.
- 12. Solve towers of Hanoi using recursion.

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- 13. Sort the list of numbers using pass by reference.
- 14. Generate salary slip of employees using structures and pointers.
- 15. Compute internal marks of students for five different subjects using structures and functions.
- 16. Insert, update, delete and append telephone details of an individual or a company into a telephone directory using random access file.
- 17. Count the number of account holders whose balance is less than the minimum balance using sequential access file.

Mini project

- 18. Create a "Railway reservation system" with the following modules
 - Booking
 - Availability checking
 - Cancellation
 - Prepare chart