21CSEP1	PROGRAMMING IN C LAB	L	T	P	C
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Practical (1 Credit)

COURSE 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.

Lab Practice	PROGRAMMING IN C LAB	15 Hours

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?
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. Write a Program to read marks of a student in six subjects and print whether pass or fail (using if-else).
7. Write a Program to display vowels and consonants using switch case.
8. Write a program to calculate sum of individual digits of a given number.
9. Write a program to print minimum and maximum elements in the 1-D array.
10. Write a program to perform matrix addition and matrix subtraction.
11. Write a program to perform various string manipulations using built-in functions.
12. Write a program to read and display a value using getchar(),putchar(),gets() and puts().
13. Write a program to find product of two numbers using functions with arguments, with return type.
14. Write a program to swap two numbers using a) call by value b) call by reference.
15. Write a program to create structure for an account holder in a bank with following Fields: name, account number, address, balance and display the details of five account holders.
16. Write a program which copies the contents of one file to another file using command line arguments.

COURSE OUTCOMES:

Upon completion of the course, the students will be able to:

CO1:Develop C programs for simple applications making use of basic constructs, arrays and strings.

CO2:Develop C programs involving functions, recursion, pointers, and structures.

CO3Design applications using sequential and random access file processing.