QUESTION BANK FOR II SEMESTER (Term: 1st June – 3rd September 2022)

C PROGRAMMING LABORATORY

Subject Code: CSL28/CSL101/CSL201   Exam Hours: 03
Subject Credits: 0:0:1   Exam Marks: 50

Note: Both Part A and Part B program have to be written and executed

PART-A

1. Write and execute a C program to read two points with x and y coordinates, compute the straight-line distance between them and display the result.
2. Write and execute a C program to find the biggest of three numbers using nested ternary operator and display the result.
3. Write and execute a C program to check whether a given year is leap year or not using if-else statement and display the result.
4. Write and execute a C program to find the sum of odd numbers and even numbers in first n natural numbers using a for loop and display the result.
5. Write and execute a C program to read a list of positive values and calculate its average using break and continue statement and display the result.
6. Write and execute a C program to determine whether a character entered by the user is an alphabet, digit, punctuation or whitespace using simple if statements and display the result.
7. Write and execute a C program to find whether a given number is palindrome or not using a while loop and display the result.
8. Write and execute a C program to read an array of 'n' elements and a key element, search the key element in the given array using linear search and display whether the search is successful or unsuccessful.
9. Write and execute a C program to read two strings using keyboard, and combine them without using built-in functions and display the result.
10. Write and execute a C program to swap two numbers using pointers. Display the result.

PART-B

1. Write and execute a C program to find the roots of a quadratic equation using if-else statement and display the result.
2. Write and execute a C program to perform desired arithmetic operation using switch statement declaring choice as char data type and display the result.
3. Write and execute a C program to read a number (integer) in the range 1 to 5 using the keyboard and print its equivalent Roman representation using a switch statement.

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4. Write and execute a C program to read an array of 'n' elements and a key element, search the key element in the given array using binary search and display whether the search is successful or unsuccessful. Display the position of the key element if found.
5. Write and execute a C program to read an array of elements and sort the elements in descending order using bubble sort. Display the sorted elements.
6. Write and execute a C program to read a number using keyboard and print Fibonacci series till that number using one dimensional arrays.
7. Write and execute a C program to add two matrices. Display the result in matrix form.
8. Write and execute a C program to read a matrix and find its transpose. Display the result in matrix form.
9. Write and execute a C program to find factorial of a given number using functions with arguments, with return type. Display the results.
10. Write and execute a C program to read a number and find whether it is prime or not using functions without arguments, without return type. Display the results.

Marks Distribution :

Program	Write-up	Execution	Viva	Change of Program	Total
Part A	2 Marks	5 Marks		-2 Marks	
Part B	2 Marks	7 Marks	4 Marks	-2 Marks	20 Marks

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