

Topics		List of Programs	
Basic Input & Output, Scalar data types: Integer, float, char Operations: Addition, Subtraction, Multiplication, division, modulus		1	Program to print "Hello world".
		2	Program to perform integer arithmetic (Addition, Subtraction, Multiplication Division & Modulus operations) on hard-coded values (i.e. no user input).
		3	Program to perform integer arithmetic with user input.
		4	Program to perform arithmetic operations on real values with user input.
Branching: If-Else, switch, Looping: for, while, do-while, break, continue, Pre & Post increment/decrement operators		5	Program to print the sum of digits of an integer.
		6	Program to print whether an input integer is odd or even.
		7	Program to print the factors of an integer.
		8	Program to print an integer in reverse.
Arrays: Reading and writing elements		9	Program to find the sum of elements of an array of integers/real values.
		10	Program to search for an element in an unsorted array of integers.
		11	Program to print the number of instances of an element in an unsorted array of integers.
Strings and String functions		12	Program to print a string in reverse.
		13	Program to test whether two strings are equal.
		14	Program to read and print a string containing space characters.
User-defined functions, call by value, call by reference, recursion		15	Program using user-defined functions to print the factorial of an integer (recursive & non-recursive).
		16	Program using user-defined functions to print the sum of elements of an integer array.
Structures, Array of structures		17	Program to read and print the details (name, age & register number) of a number of students.

SI No	List of Programs
1	Program to perform set operations; union, intersection and difference.
2	Program to perform the addition of sparse matrices. Store only the non-zero elements of the sparse matrix along with the row and column indexes in a linear array. Print the sum in matrix format.
3	Print the octal and hexadecimal representations of a given binary sequence.
4	Print the number of occurrence of each character within a given string. Print the count of a character only once.
5	Program to print the mode and standard deviation of a given set of real numbers.