**C PROGRAM – BASIC**

Basic1. Check whether a number is prime or not .

Basic2. print ASCII value of a character .

Basic3. WAP to swap two numbers.

Basic4. Program to Convert Fahrenheit to Celsius in C.

Basic5. program for converting hours to minutes and seconds.

Basic6. C program to find quotient and remainder of two numbers

C PROGRAM - CONTROL FLOW (IF-ELSE , LOOPS)

Control-Flow-1. C Program to Print Prime Numbers From 1 to N using DMA.

Control-Flow-2. C Program to check if a number is positive, negative, or zero using bitwise operators.

Control-Flow-3. C Program to Check for Even or Odd Number.

Control-Flow-4. C Program to Calculate Sum of Natural Numbers

Control-Flow-5. Leap Year Program in C.

Control-Flow-6. Write a C program to find the factorial of the given number

Control-Flow-7. C Program to Make a Simple Calculator

Control-Flow-8. C Program to Print Fibonacci Series using--

Control-Flow-9. LCM of two numbers in C.

Control-Flow-10. C Program to Check Armstrong Number.

Control-Flow-11. C Program to Print Armstrong Numbers Between 1 to 1000.

Control-Flow-12. C Program to Display Armstrong numbers between given range.

Control-Flow-13. Reverse Number Program in C.

Control-Flow-14. Palindrome Number Program in C.

Control-Flow-15. C Program to Display Prime Numbers Between Intervals.

Control-Flow-16. C Program To Check Neon Number.

Control-Flow-17. C Program to Display Factors of a Number.

Control-Flow-18. C Program to Find the Sum of Fibonacci Numbers at Even Indexes up to N Terms.

**C PROGRAM - PATTERN PRINTING**

Pattern-Printing-1. C Program to Print Patterns.

1. Half Pyramid Pattern of Numbers.

2. Inverted Half Pyramid of Numbers.

3. Full Pyramid Pattern of Numbers.

4. Full Pyramid of Numbers in 180 Degree.

5. Hollow pyramid of ” \* ” .

6. Diamond Pyramid of ” \* ”.

Pattern-Printing-2. 7. C Program to Print Number Pattern.

Pattern-Printing-3. 8. C Program To Print Character Pyramid Pattern.

Pattern-Printing-4. 9. Program to Print Continuous Character Pattern.

Pattern-Printing-5. 10.C Program To Print Hollow Diamond Pattern.

Pattern-Printing-6. 11.Pascal Triangle Program in C.

Pattern-Printing-7. 12.Reverse Floyd pattern in C.

**C PROGRAM - FUNCTIONS**

Functions-1. C Program for Quadratic Equation Roots.

Functions-2. C Program to Check Whether a Number Can Be Express as Sum of Two Prime Numbers.

Functions-3. C Program to Find GCD or HCF of Two Numbers.

**C PROGRAM - ARRAYS**

Arrays-1. C program to input a 2D array as parameters in function -

Arrays-2. C program to find maximum element in an array.

Arrays-3. C Program For Maximum and Minimum of an Array.

Arrays-4. C Program for Binary Search in array.

Arrays-5. C program to implement bubble sort for ascending and descending order.

Arrays-6. C program to implement merge sort.

Arrays-7. C program to implement selection sort.

Arrays-8. C program to implement insertion sort.

Arrays-9. C program to remove duplicate items from array.

Arrays-10. C program to merge two arrays.

Arrays-11. C program to remove all occurrences of an element in array.

Arrays-12. C program to find common elements of an array.

Arrays-13. C program to copy elements of one array to another.

Arrays-14. C program to rotate an array .

Arrays-15. C program to sort 2d array using bubble sort.

Arrays-16. C program to check if two matrices are equal.

Arrays-17. C program to find transpose of a matrix.

Arrays-18. C program to find determinant of a matrix.

Arrays-19. C program to find normal and trace of a matrix.

Arrays-20. C program to add two matrices.

Arrays-21. C program to multiply two matrices.

Arrays-22. C program to print boundary elements of a matrix.

Arrays-23. C program to rotate a matrix .

**C PROGRAM - STRINGS**

Strings-1. C program to concatenate two strings without strcat function.

Strings-2. C program to add two binary numbers.

Strings-3. C program to find the occurrence of first non repeating character.

Strings-4. C program to check whether a string id palindrome or not.

Strings-5. C program to reverse a string using recursion.

Strings-6. C program to sort an array of strings without using qrsort() method.

Strings-7. C program to check if a string is pangram or not.

Strings-8. C program to print first word of every string.

Strings-9. C Program to Determine the Unicode Code Point at a Given Index.

Strings-10. C program to compare two strings.

Strings-11. C program to remove initial zeroes pf a string.

Strings-12. C program to split a string into smaller substrings.

**C PROGRAM - CONVERSIONS**

Conversions-1. C program to convert int and float to string .

Conversions-2. C program for double to string conversion .

Conversions-3. Converting String to Long in C and vice versa .

Conversions-4. Converting integer to character in C and vice versa.

Conversions-5. Converting octal to decimal and vice versa .

Conversions-6. Converting hexadecimal to decimal and vice versa.

Conversions-7. Converting binary to decimal and vice versa.

**C PROGRAM - POINTERS**

Pointers-1. C program to return a pointer and its value.

Pointers-2. C program to initialize a 2D array using pointers.

Pointers-3. C program to find the largest number in array using pointers.

Pointers-4. C program to sort an array using pointers.

Pointers-5. C program to sort an 2D array of strings using pointers.

Pointers-6. C program to check for palindrome using pointers.

**C PROGRAM - STRUCTURES**

Structures-1. C program to add two complex numbers using struct.

Structures-2. C Program to Store Information of Students Using Structure.

Structures-3. C program to read Student records like id, name and age and display them in sorted order by Name .

Structures-4. C Program to Add N Distances Given in inch-feet System using Structures.

Structures-5. Flexible Array Members (FAM) in C .

**C PROGRAM - FILE IO**

File-IO-1. C program to create a temporary file.

File-IO-2. Read/Write Structure From/to a File in C.

File-IO-3. C program to rename aa file.

File-IO-4. C-program to read-only a file.

File-IO-5. C program to compare two files and report mismatches by displaying line number and position of line.

File-IO-6. C program to copy contents of one file to another file.

File-IO-7. C program to append content of one text file to another.

File-IO-8. C Program to Read and Print All Files From a Zip File.-

**C PROGRAM - DATE & TIME**

Date-andTime-1. C program to demonstrate date and time.

Date-andTime-2. C implementation of digital clock.

Date-andTime-3. C program to print the month by month calendar for the given year.

Date-andTime-4. C program to demonstrate current date method.

Date-andTime-5. C Program to Maximize Time by Replacing ‘\_’ in a Given 24-Hour Format Time.

**C PROGRAM - MISCLLANEOUS**

Miscllaneous-1. printing source code of C program itself.

**C-PROGRAM - SPECIAL QUESTIONS**

Special-1. Write a C program to find the factorial of the given number using arrays.

Special-2. C program to demonstrate the Multiplication table of a number using 2D arrays.

Special-3. C Program to check if a number is a palindrome by converting it to a string and using two pointers

Special-4. C Program to reverse a stack.

Special-5. Naive algorithm for Pattern Searching.

Special-6. C program to find min and max of an array using struct.

SPecial-7. C program to copy a singly linked list.