

Sr. No	Module Name	Name of Program
1.	Familiarization with programming environment Introduction to Programming, Writing of Algorithms, Introduction to Drawing flow Charts /Preparation of Flowchart/ Steps for Writing Code in C/ Turbo C.	<ol style="list-style-type: none"> 1. First Basic Program-Writing a Single Statement. 2. Writing a Program to print your Basic details Multi statements.
2	Variable types and type conversions	<ol style="list-style-type: none"> 1. WAP to perform simple Input-Output Operations in C. 2. WAP to add two numbers. 3. WAP to perform simple arithmetic operations in C(Addition, Subtraction, Multiplication, Division, Modulus). 4. Write a simple program that print the result of all the operators available in c (including pre/post increment, bitwise and logical). 5. WAP to find area and perimeter of circle. 6. WAP to find area and perimeter of rectangle. 7. Given the values of three variable entered by user, write a program to compute and display the value of x, where $x=a/(b-c)$. 8. Write a program to convert one data type to another using auto conversion and casting. Take the value from user input.
3	Branching and logical expressions: Use of If, if- else, Else if, nested if statements and operators with them and switch case statement	<ol style="list-style-type: none"> 1. WAP to find whether a given number is positive or not. 2. WAP to find greatest of two numbers. 3. WAP to find greatest of three numbers using nested if/else if statements only. 4. WAP to find greatest of three numbers using & operator. 5. WAP to find whether a given number is even or odd. 6. Given the marks of a student studying five different subject. Calculate average marks of students and assign him/her Grade based on following: Marks is equal or greater than 90 – Grade A Marks equal or more than 75 and less than 90 –Grade B Marks equal or more than 60 and less than 75 –Grade C Marks equal or more than 50 and less than 60 –Grade D Marks less than 50 –Grade F 7. WAP to find roots of a quadratic equation: $ax^2+bx+c=0$ 8. WAP to print day of a week using switch case statement 9. WAP to design a simple calculate using switch-case statements
4.	Loops: do, while and for loops: Use of while loop, do while, and for loop:their Syntax	<ol style="list-style-type: none"> 1. WAP to print counting 1 to 10 using all loop 2. WAP to print table of any number. 3. WAP to print the factorial of given number. 4. WAP to print the sum of digits of a given number.

		5. WAP to print the Fibonacci series up to 10 level. 6. WAP to find whether the given number is Armstrong or Not. 7. WAP to find whether the given number is Palindrome or Not. 8. WAP to find whether the given number is prime or not. 9. WAP to reverse the digits of a given number.
5.	1D Arrays, 2 D array Declaration of arrays, syntax, semantics,	1. Program to insert 5 elements into array and print elements of array. 2. WAP to merge two sorted array in one sorted array. 3. WAP to add two matrices in 2-D array 4. WAP to multiply two matrices in 2-D array. 5. WAP to find transpose of a Matrix. 6. WAP to find average of 10 numbers using array. 7. WAP to print the following numbers in reverse order using array.
6.	Functions Simple function declaration, definition, functions with return type, call by value.	1. WAP to create function display a simple message. 2. WAP to create function to add two numbers. 3. WAP to create a function to swap two numbers using call by value. 4. WAP to generate Fibonacci series using recursive function. 5. WAP to swap two integers using call by value and call by reference method of passing arguments to a function.
7.	Pointers Pointer declaration, use of pointers in array, functions, call by reference, recursive functions	1. WAP to understand basic use of pointers. 2. WAP to implement call by reference for swapping of two numbers. 3. WAP to calculate factorial of a number using recursion. 4. WAP to Fibonacci series up to 20 using recursive numbers
8.	Structure Basic of Structure, Union and accessing data of structure.	1. WAP for user defined data type namely Student and implement it using Structure 2. WAP for user defined data type namely Book and implement it using Structure.. 3. WAP to create an array of structure.
9	File Operations File opening modes, creation of files, reading and writing data files.	1. WAP to read a simple file using file handling. 2. WAP to write data in file. 3. WAP to append data in existing file.
10.	Searching and sorting Various searching and sorting algorithms.	1. WAP to implement linear search 2. WAP to implement binary search 3. WAP to implement selection sort. 4. WAP to implement insertion sort. 5. WAP to implement quick sort. 6. WAP to implement merge sort. 7. WAP to implement bubble sort.