Day 4
Tasks:
Control Structures (if, else, switch)
Practice Problems:
Write a program to find the largest of three numbers using if-else.
Write a program to grade students based on their marks using switch-case.
Write a program to check if a number is positive, negative, or zero.
Day 5
Tasks:
Loops (for, while, do-while)
Practice Problems:
Write a program to print the first 10 natural numbers using a loop.
Write a program to calculate the factorial of a number using a loop.
Write a program to print the Fibonacci series up to a specified number.
Day 6
Tasks:
Arrays
Practice Problems:
Write a program to find the sum and average of elements in an array.
Write a program to find the largest element in an array.
Write a program to reverse the elements of an array.
Day 7
Tasks:
Functions
Practice Problems:

Write a program to check if a number is even or odd using logical operators.

Write a program to create a function that checks if a number is prime.
Write a program to create a function that returns the maximum of three numbers.
Day 8
Tasks:
Pointers
Practice Problems:
Write a program to swap two numbers using pointers.
Write a program to find the length of a string using pointers.
Write a program to sort an array using pointer notation.
Day 9
Tasks:
Strings
Practice Problems:
Write a program to reverse a string.
Write a program to check if a string is a palindrome.
Write a program to count the number of vowels and consonants in a string.
Day 10
Tasks:
Structures
Practice Problems:
Write a program to create a structure for a student and print their details.
Write a program to create an array of structures to store information about multiple students.
Write a program to sort an array of structures by a specific field (e.g., student marks).

Write a program to create a function that calculates the factorial of a number.

Day 11
Tasks:
File Handling (reading and writing files)
Practice Problems:
Write a program to read from a file and display its contents.
Write a program to write data to a file.
Write a program to copy the contents of one file to another.
Day 12
Tasks:
Dynamic Memory Allocation (malloc, calloc, free)
Practice Problems:
Write a program to dynamically allocate memory for an array and find its sum.
Write a program to dynamically allocate memory for a matrix and perform matrix addition.
Write a program to release dynamically allocated memory and avoid memory leaks.
Day 13
Tasks:
Preprocessor Directives
Practice Problems:
Write a program using #define to create a constant value.
Write a program using conditional compilation to include/exclude parts of the code.
Write a program to include a custom header file.
Day 14
Tasks:
Recursion
Practice Problems:
Write a program to find the GCD of two numbers using recursion.
Write a program to calculate the factorial of a number using recursion.

Day 15	
Tasks:	
Practice and Project	

Practice Problems:

Write a program to implement a simple calculator using all the concepts learned.

Write a program to manage a simple database (e.g., student records) using file handling and structures.

Write a program to solve a real-world problem (e.g., inventory management) using dynamic memory allocation, structures, and file handling.