CodSoft

C++ PROGRAMMING

ABOUT US

CODSOFT is a vibrant and diverse community that brings together individuals with similar objectives and ultimate goals. Our main focus is on creating opportunities that span various areas, including leadership development, learning, student engagement, and fostering shared interests.

We believe in the power of leadership and its ability to drive positive change. That's why we provide platforms and resources for our community members to develop their leadership skills. Through mentorship programs, workshops, and collaborative projects, we empower individuals to take on leadership roles and make a difference in their respective fields.

INSTRUCTIONS

- Update your LinkedIn profiles

- For the C++Programming internship, you will need to complete **at least 3 tasks** for successful completion of the internship.

- Maintain a separate GitHub repository(name as CODSOFT for all the tasks and share the link of the GitHub repo in the task submission form(it will be given later through email).

- You can refer to online resources such as Google Search and read tutorials. Watch videos(For Help).

SUBMISSION

- A **TASK SUBMISSION FORM** will be shared later through email. Till then please continue your task.

- A video need to be created to showcase your work, a demo of your effort.

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- The video can be hosted on LinkedIn for proof of your work and to build credibility among your peers. You can tag @CODSOFT in such posts.

- Please add #codsoft in each of your task video postings on LinkedIn, Additionally, you can also add hashtags such as #internship #webdevelopment. for more reach and visibility
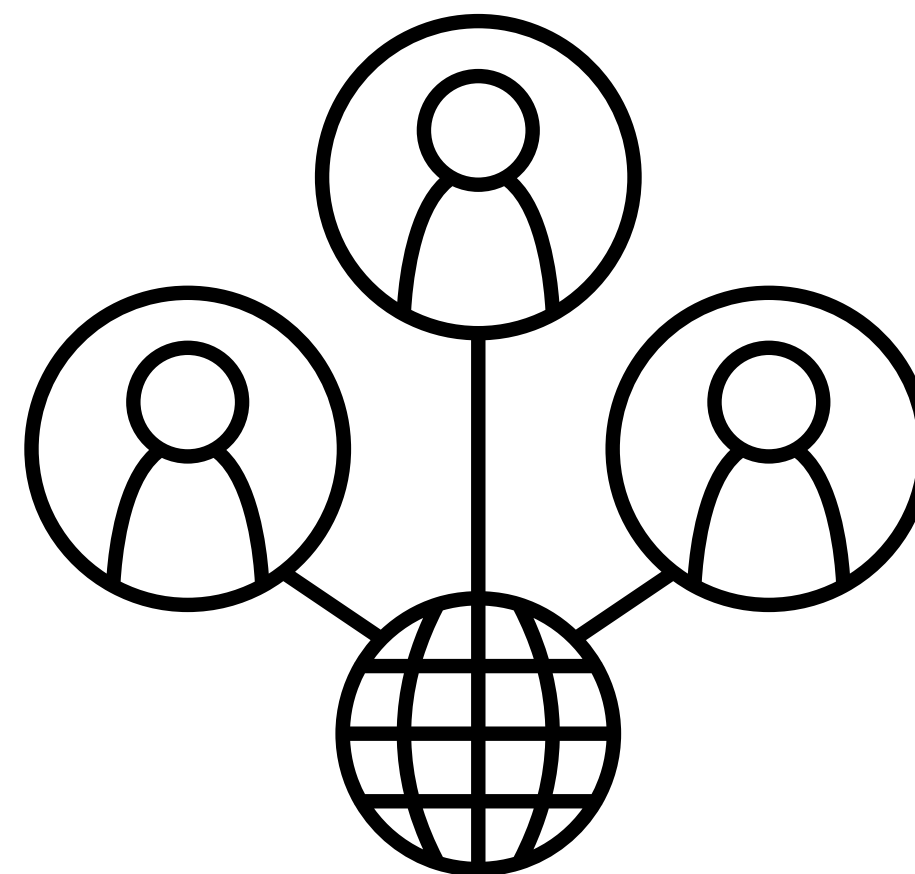
ABOUT THE INTERNSHIP

**COMPLETION
CERTIFICATE**

**PLACEMENT
SUPPORT**

**NETWORK
OPPORTUNITY**

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TASK 1

NUMBER GUESSING GAME

- Create a program that generates a random number and asks the user to guess it. Provide feedback on whether the guess is too high or too low until the user guesses the correct number.

TASK 2

SIMPLE CALCULATOR

- Develop a calculator program that performs basic arithmetic operations such as addition, subtraction, multiplication, and division. Allow the user to input two numbers and choose an operation to perform.

TIC-TAC-TOE GAME

Build a simple console-based Tic-Tac-Toe game that allows two players to play against each other

Game Board: Create a 3x3 grid as the game board.

Players: Assign "X" and "O" to two players.

Display Board: Show the current state of the board.

Player Input: Prompt the current player to enter their move.

Update Board: Update the game board with the player's move.

Check for Win: Check if the current player has won.

Check for Draw: Determine if the game is a draw.

Switch Players: Alternate turns between "X" and "O" players.

Display Result: Show the result of the game (win, draw, or ongoing).

Play Again: Ask if the players want to play another game.

TO-DO LIST

Build a simple console-based to-do list manager that allows users to add, view, and delete tasks

Task Input: Allow users to input tasks they want to add to the list.
Add Task: Implement a function to add tasks to the list.
View Tasks: Display the list of tasks with their status (completed or pending).
Mark Task as Completed: Allow users to mark tasks as completed.
Remove Task: Provide an option to remove tasks from the list.

TASK 5

LIBRARY MANAGEMENT SYSTEM

Develop a system to manage books, borrowers, and transactions in a library.

Book Database: Store book information (title, author, ISBN) in a database.

Book Search: Allow users to search for books based on title, author, or ISBN.

Book Checkout: Enable librarians to check out books to borrowers.

Book Return: Record book returns and update availability status.

Fine Calculation: Implement a fine calculation system for overdue books.

User Interface: Design a user-friendly interface for easy interaction.

ASK US FOR HELP!

- THE PURPOSE OF THIS INTERNSHIP IS TO LEARN AND GROW.

- *We have no desire to dictate to you. It is entirely up to you whether you seek guidance or not.*

- The given tasks may seem very easy or very difficult. We expect you to approach the tasks with professional diligence and give them the attention they deserve."

GET SOCIAL WITH US

www.codsoft.in

contact@codsoft.in

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