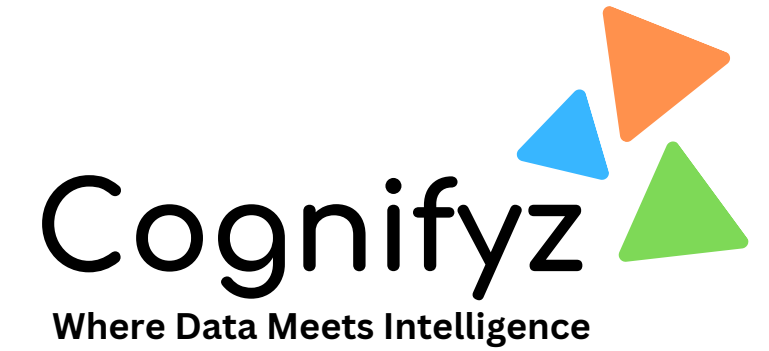# Cognifyz
Where Data Meets Intelligence

INTERNSHIP PROGRAM
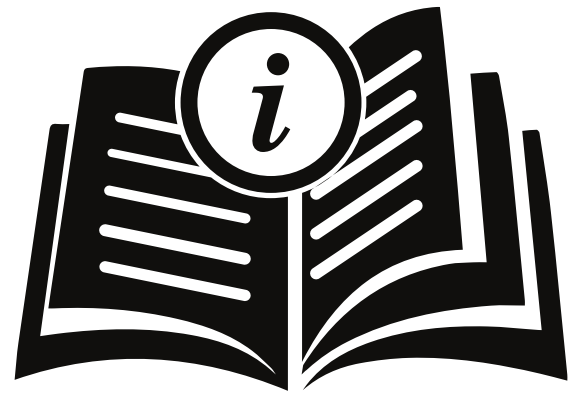
Java Development

About Us

- Cognifyz Technologies is a leading technology company that specializes in the dynamic field of data science and excels in delivering impactful projects and solutions.

- The company offers a wide range of products and services, including artificial intelligence (AI), machine learning (ML), and data analytics tools.

- Cognifyz Technologies also provides training programs to enhance skills and knowledge in these areas.

- The company focuses on delivering innovative and cutting-edge solutions to meet the evolving needs of businesses.

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MSME
Micro, Small, & Medium Enterprises
सूक्ष्म, लघु, एवं मध्यम उद्योग
MSME BUSINESS FORUM

During your internship tenure, it is important to keep in mind the following points

- Enhance your professional presence by updating your LinkedIn profile. Share your achievements, such as the offer letter or internship completion certificate, which you received from us. Don't forget to mention and tag Cognifyz Technologies in your posts. You can use hashtags like #cognifyz #cognifyzTech #cognifyzTechnologies to showcase your affiliation.

- Maintain academic integrity and respect intellectual property. Plagiarism and copying code are serious offenses that can lead to the termination of your internship and subsequent restriction from future opportunities with us.

- Demonstrate your work by sharing a video showcasing the completion of your tasks on LinkedIn. Remember to tag Cognifyz Technologies in your post and use relevant hashtags like #cognifyz #cognifyzTech #cognifyzTechnologies to engage with our community.
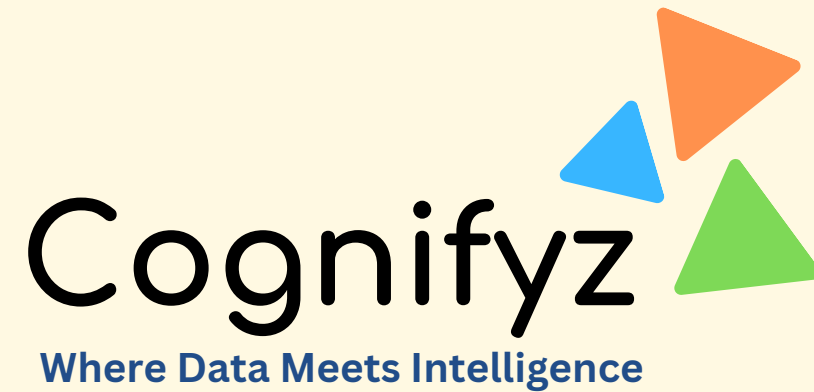
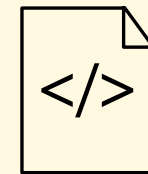Cognifyz
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SUBMISSION

- **Create a professional video showcasing your internship projects and achievements.**

- **Host the video on LinkedIn to provide proof of your work and establish credibility among your peers. Consider tagging Cognifyz Technologies in your posts to ensure they are notified of your work.**

- **A SUBMISSION FORM will be shared later. Till then please continue your task and make a septate file of each level.**

- **When posting the video on LinkedIn, include the following hashtags to maximize visibility and engagement: #cognifyztechnologies #cognifyz #cognifyztech. Additionally, depending on your internship domain.**

RULES
1
2
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4
5

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JAVA DEVELOPMENT </>

TASK LIST

Welcome to our exciting Java Development internship program! To complete this internship, you will have the chance to choose any 2 of 3 levels: Level 1, Level 2, or Level 3. We've designed these levels to cater to your convenience and ensure an engaging and rewarding experience. Additionally, the successful completion of Level 3 (any one task out of 4) will further enhance your chances of receiving a stipend.

Level 1

Task 1

Task: Temperature Converter

Description: Create a program that converts temperatures between Celsius and Fahrenheit. Prompt the user to enter a temperature value and the unit of measurement, and then perform the conversion. Display the converted temperature.

Skills: Basic input/output operations, arithmetic operations.

Level 1

Task 2
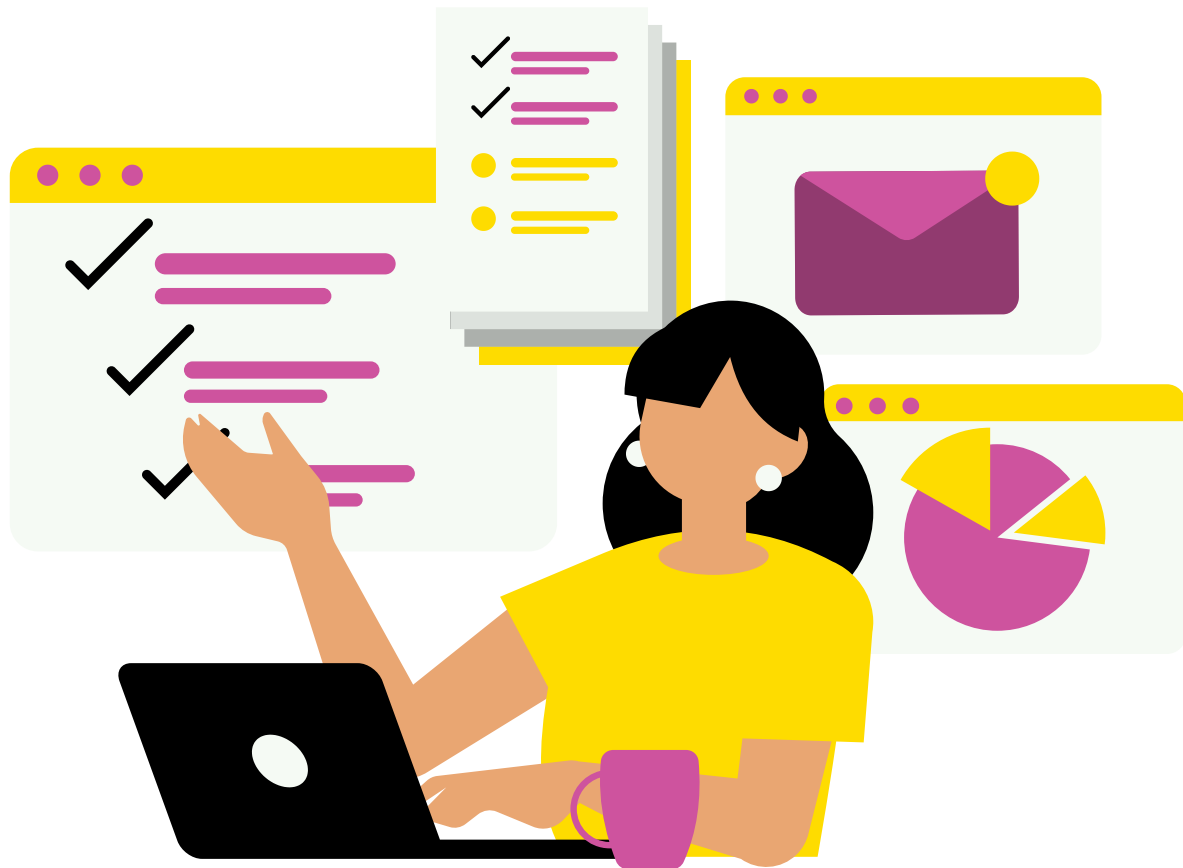
Task: Palindrome Checker

Description: Implement a program that checks whether a given word or phrase is a palindrome. A palindrome is a word or phrase that reads the same forwards and backward, ignoring spaces and punctuation.

Skills: String manipulation, loops, conditional statements.

Level 1

Task 3

Task: Student Grade Calculator

Description: create a program that calculates and displays the average grade of a student. Prompt the user to enter the number of grades to be entered, and then input each grade. Calculate the average and display it to the user.

Skills: Loops, arrays, basic arithmetic operations.

Level 1

Task 4

Task: Random Password Generator

Description: Build a program that generates a random password for the user. Prompt the user to enter the desired length of the password and specify whether it should include numbers, lowercase letters, uppercase letters, and special characters. Generate the password accordingly and display it to the user.

Skills: Random number generation, string manipulation, user input.

Level 2

Task 1

Task: Tic-Tac-Toe Game

Description: Implement a two-player tic-tac-toe game. Display the game board and prompt each player to enter their moves. Check for a winning condition or a draw after each move, and display the result accordingly. Allow the players to play multiple rounds if desired.

Skills: Arrays or matrices, loops, conditional statements.

Level 2

Task 2

Task: Password Strength Checker

Description: Create a program that checks the strength of a password. Prompt the user to input a password and analyze its strength based on certain criteria, such as length, presence of uppercase letters, lowercase letters, numbers, and special characters. Provide feedback on the password strength.

Skills: String manipulation, conditional statements.

Level 2

Task 3
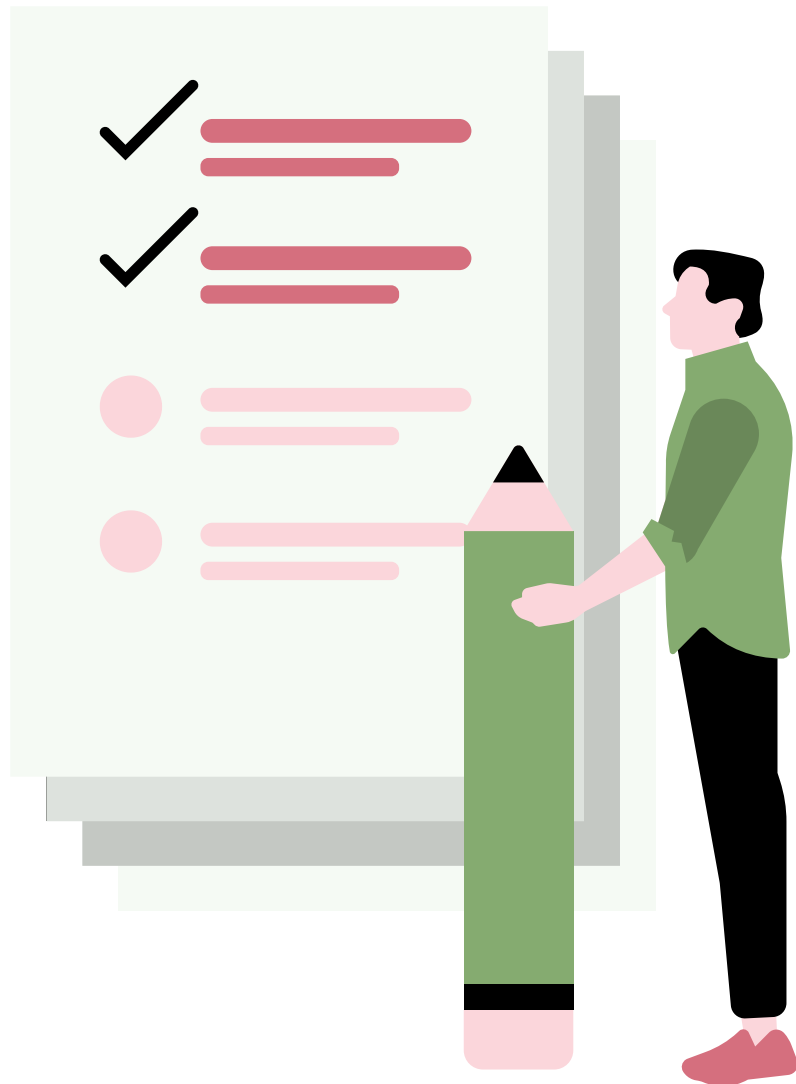
Task: File Encryption/Decryption

Description: Create a program that encrypts or decrypts the contents of a text file using a simple encryption algorithm. Prompt the user to choose between encryption or decryption, and input the file name or path. Encrypt or decrypt the file accordingly and save the result to a new file.

Skills: File handling, string manipulation, basic input/output operations.

Level 3

Task 1

Task: Implement a Chat Application

Develop a chat application using Java and networking libraries like Socket or Java NIO. This task will enhance their knowledge of network programming, client-server architecture, and message exchange.

Level 3

Task 2

Task: Create a Multi-threaded Application

Build a multi-threaded Java application that demonstrates concurrency concepts like synchronization, locks, and threads. This task will help them understand concurrent programming and handling shared resources.
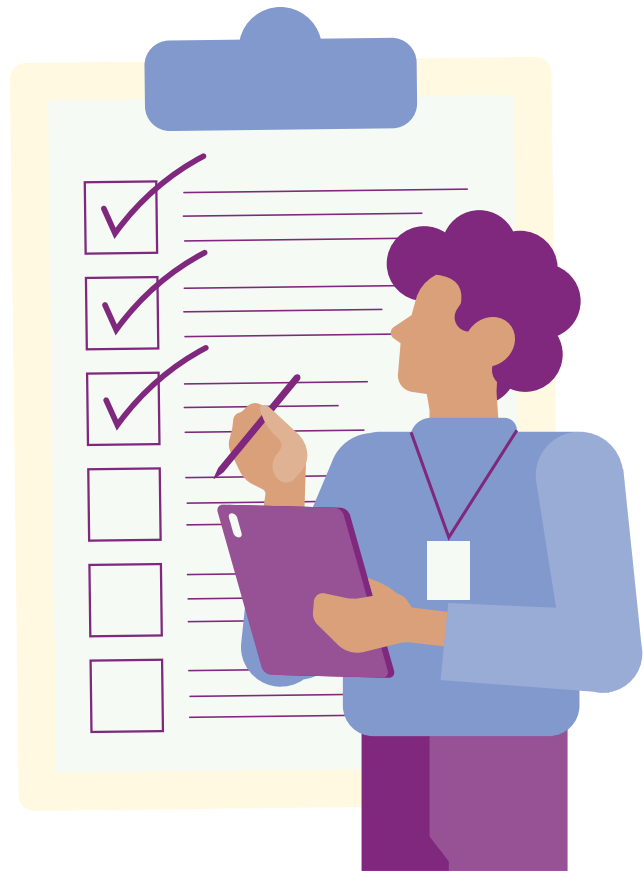
Level 3

Task 3

Task: Build a Desktop Application

Develop a desktop application using JavaFX or Swing. The application could be a calculator, file manager, or any other tool that showcases your user interface design skills and event handling.

Level 3

Task 4

Task: Currency Converter

Description: Build a program that converts currency between different exchange rates. Prompt the user to input an amount in a base currency and select the target currency. Retrieve the current exchange rate from an API and perform the conversion. Display the converted amount to the user.

Skills: API integration, JSON parsing, basic input/output operations.

How to Contact Us?

To find out more information, please contact us

in @cognifyz-Technologies

✉ contact@cognifyz.com

🌐 www.cognifyz.com

📷 @cognifyz_tech

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