HI! Welcome to your first coding assignment.

1. Based on the kind of skills you have we are going to give you two options to choose from - either you can work on a Java based project or on a Python based project.

2. Teamwork is very essential! Hence we shall encourage you to work in a team of 2-3 people - I know it's funny to work with people you do not know but remember that in your future jobs and projects you will hardly ever be working alone. But the choice is yours, if you want to work alone you can do so although we will encourage you to work in a team.

3. The projects given to you as a part of your level-one are intermediate level Command Line/Web Application based projects - the skills required here would most test your basic knowledge in the language of your choosing, database skills and the ability to write a highly optimised code.

Options:

Java: Email Administration Application

We want you to make a program that simplifies the process of creating new email accounts for a particular business. This begins to delve into Object-Oriented Programming (OOP) which is the main use of Java.

Once completed, the program should do a few things:

• It should generate a new email based on the employee's first name, last name, and department.
• Generate a random string for their password.
• Have set methods to change the password.
• Have get methods to display name, email, and mailbox capacity.

Python: Covid-19 News Aggregator

There is a lot of information and articles on the internet. Finding good relevant content is hard so a content aggregator automatically searches the popular websites, looks for the relevant content and creates a list for you to browse the content. The user can select which content they want to look at or not. We want you to twist this project a little bit - we want you to build a content aggregator for all news on COVID-19 in India. Hence we want you to build a Covid-19 News Aggregator!

Sources:

Both these projects are very common projects and you will find alot of code on github/stackoverflow , alot of websites explaining how to build your Email App Administration/Content aggregator - so put your thinking hat on and start Googling!

Just for Fun!

As a fun exercise, we encourage you to complete this small task! Write a Hello World program in any 5 of these languages/frameworks and share your results on the whatsapp group!

Java: Source 1
Android: Source 1
Flutter: Source 1 Source 2 Source 3
C: Source 1
C++: Source 1
PHP: Source 1
Python: Source 1
Or others you have in mind!

Keep these things in mind:

1. It is okay to refer to somebody else's code - but it is best to write your own. Find ideas from other people's code but start your own code from scratch. You must understand what you have written and why.

2. Make your github repository - so that every time you get stuck somewhere and want us to help you out - we need you to share your code via repository.

3. Read documentation, concepts that will be used in your coding project - chart out a workflow, list the concepts that you will use and then start coding.

4. Make Google and Youtube your best friends!