Implement OOPS using JAVA with Data Structures and Beyond

FSD: Lab Guide - Phase 1

This section will guide you to:

- Use labs to execute all demos included in this course

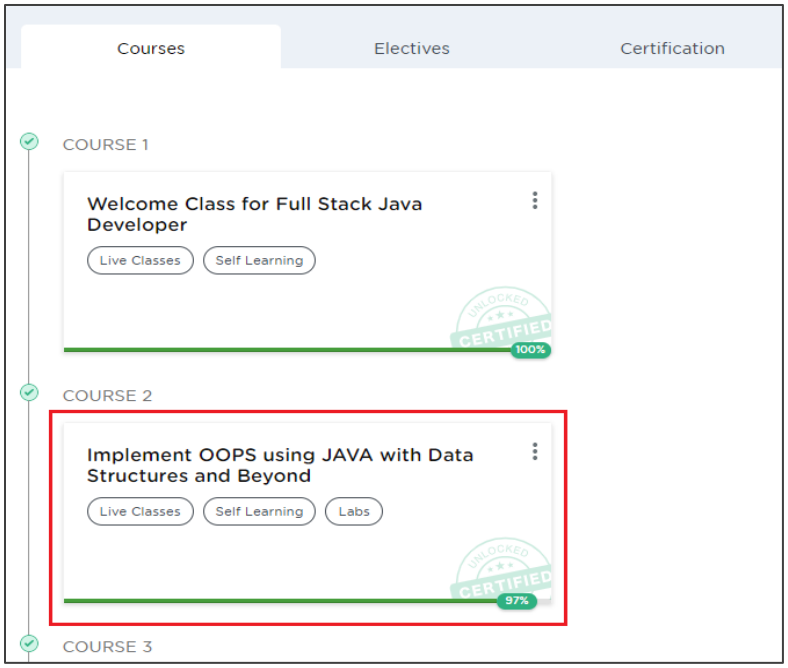
This lab guide has two subsections, namely:

1. Starting practice labs on LMS
2. Using different IDEs and software required for Phase 1

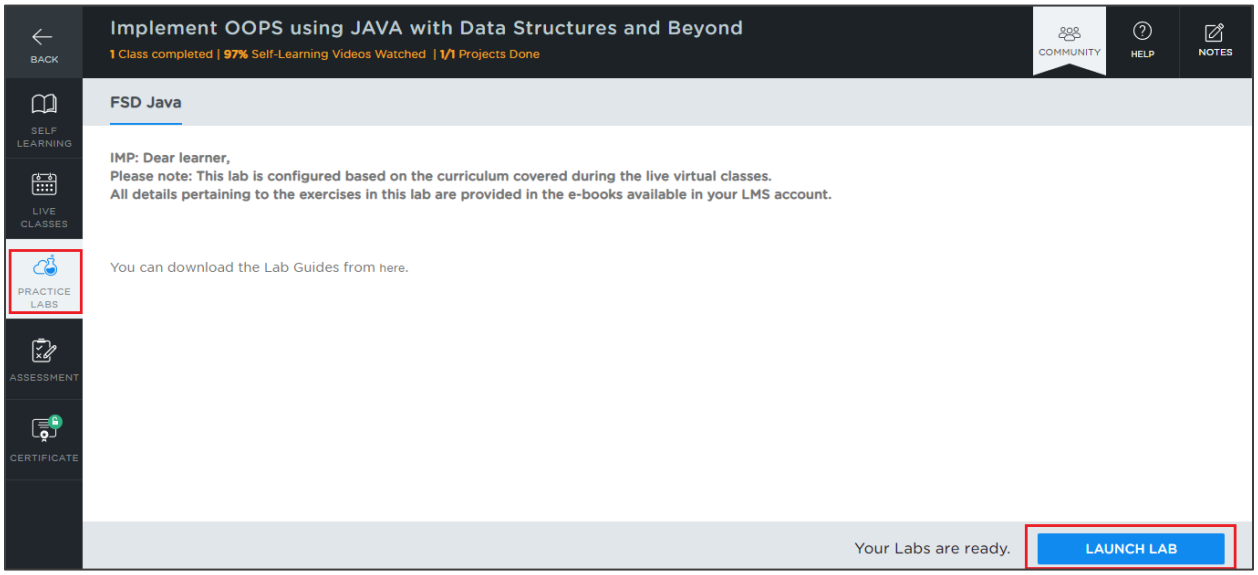
Step 1: Starting practice labs on LMS

- Login to Simplilearn LMS
- Select Master Program and then Go to Program

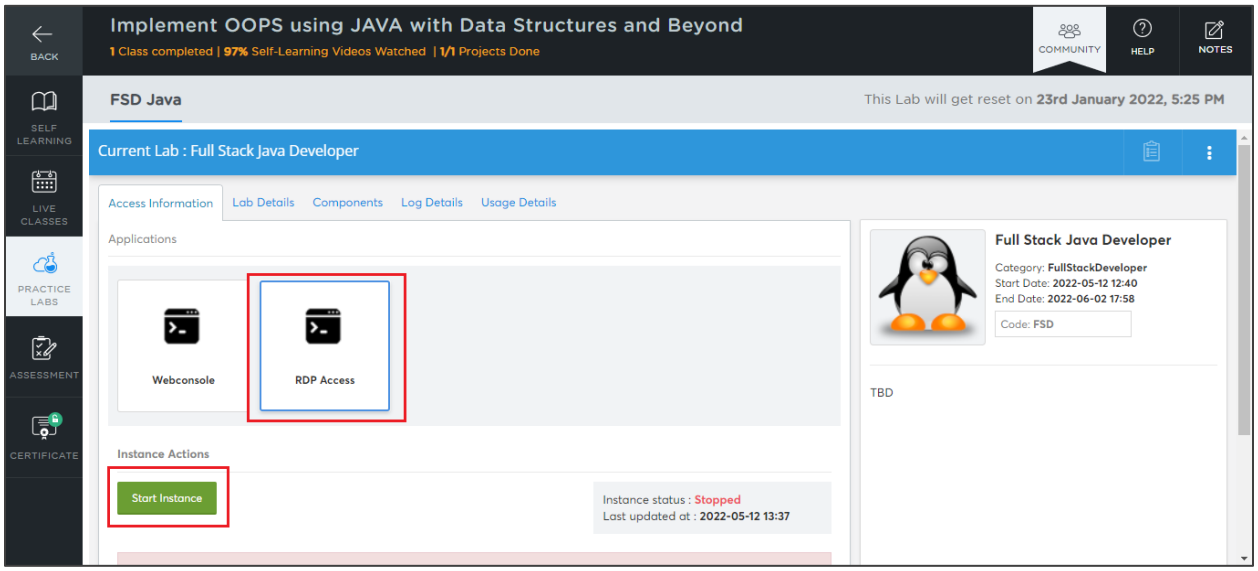
- Click on the respective course (However, since all the courses/phases have same lab, so it can be launched from anyone of them.)



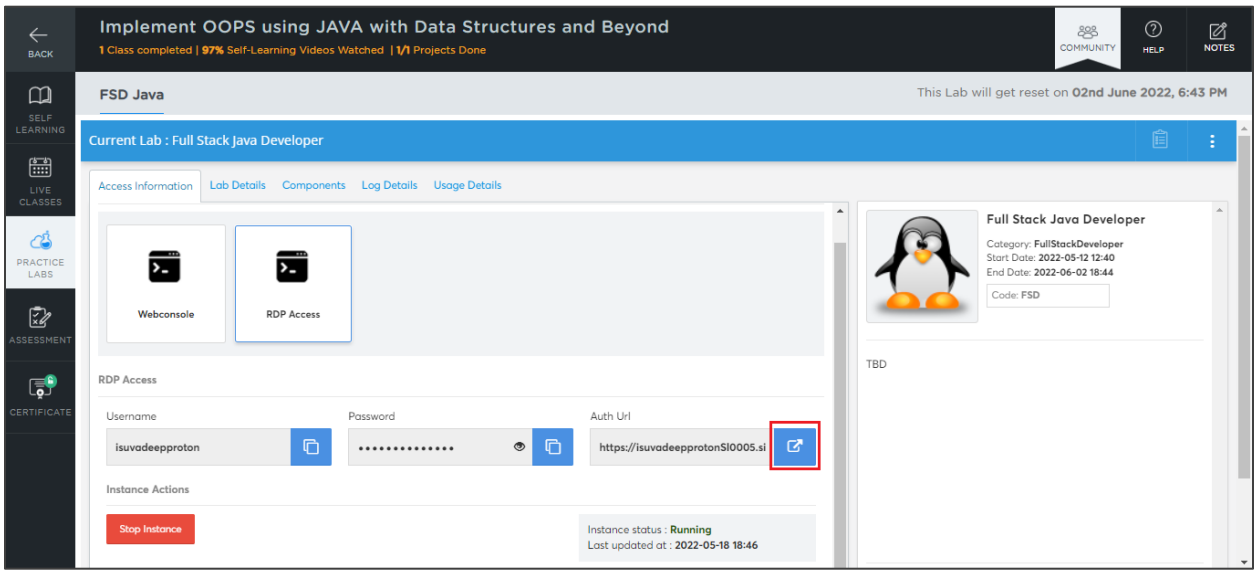
- On the left side, click on **PRACTICE LABS** tab
- As a new window opens, read the instructions and click on **LAUNCH LAB**



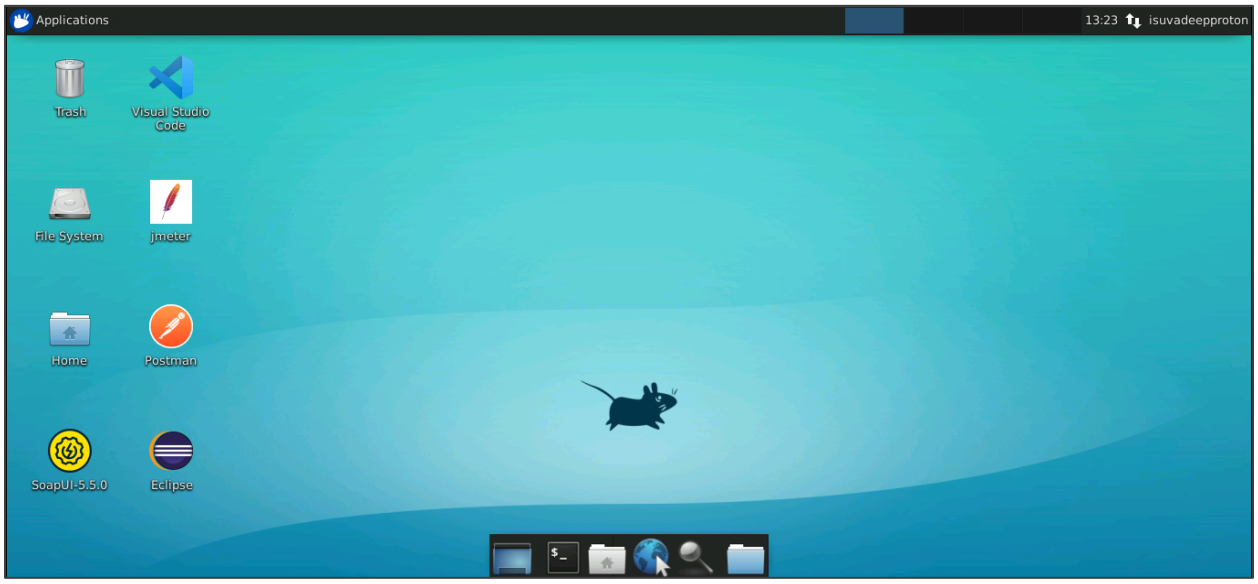
- Select RDP Access and Start Instance



- Click on Auth URL button



- You will be able to access IDEs and software which are present in labs



Step 2: Using different IDEs and software required for Phase 1

Java:

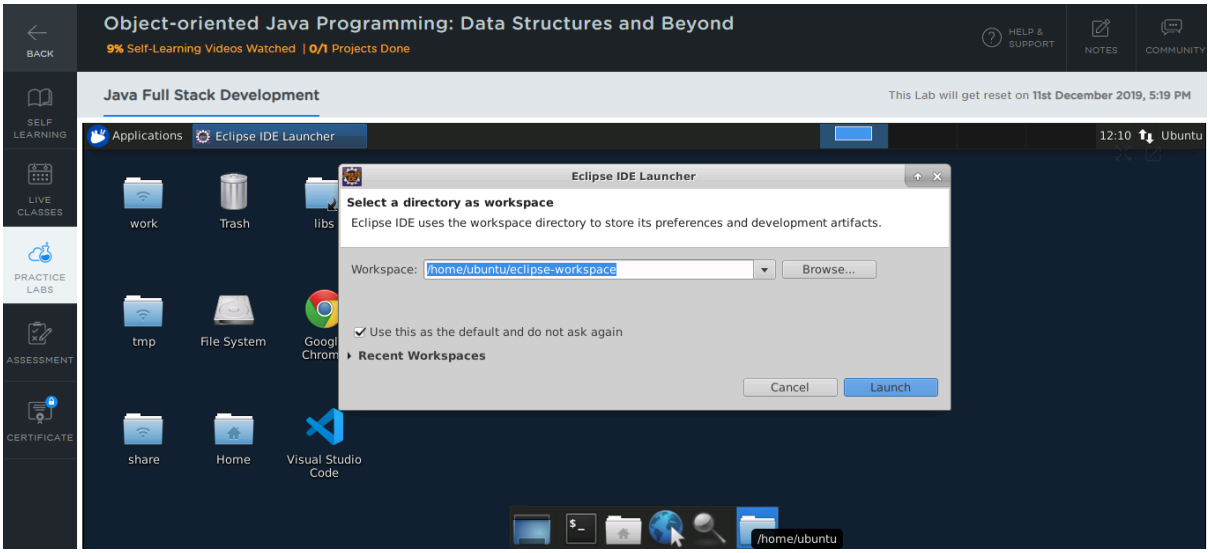
- Java 1.8 is already installed in the labs
- Open the terminal and type **java** to find whether Java is installed or not

```
nehavaidyasimpl@ip-172-31-81-156:~$ java -version
openjdk version "1.8.0_275"
OpenJDK Runtime Environment (build 1.8.0_275-8u275-b01-0ubuntu1~16.04-b01)
OpenJDK 64-Bit Server VM (build 25.275-b01, mixed mode)
nehavaidyasimpl@ip-172-31-81-156:~$
```

- If Java is not installed in your system, then
  Type the following commands:
  sudo apt-get install openjdk-8-jdk
  sudo apt-get install openjdk-8-jre

Eclipse:

- Double-click on the Eclipse icon
- Select a directory where you want to save your programs
- Select the **Use this as the default and do not ask again** checkbox and click on **Launch**



Git:

- Git is already installed in the labs
- To check whether Git is installed properly or not:
    - Create a folder named **Demo_Git** on your desktop and open it
    - Create the files: index.html and helloWorld.java
    - Open the terminal and navigate to the folder you have created
    - Execute the following command to initialize git repository:
      git init

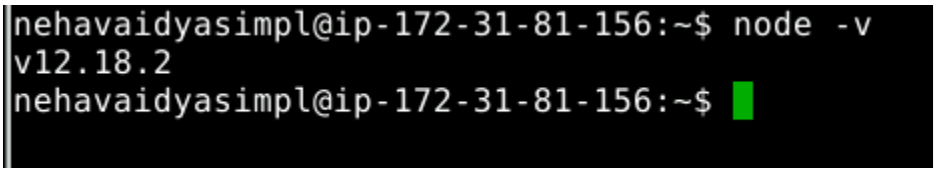
```
ubuntu@ip-172-31-81-240:~$ cd /home/ubuntu/Desktop
ubuntu@ip-172-31-81-240:~/Desktop$ cd Demo_Git
ubuntu@ip-172-31-81-240:~/Desktop/Demo_Git$ git init
Initialized empty Git repository in /home/ubuntu/Desktop/Demo_Git/.git/
ubuntu@ip-172-31-81-240:~/Desktop/Demo_Git$
```

Node JS:

- Node JS 12.18.2 version is installed in your practice labs

- To verify the installation:
    - Open the command-line interface
    - Type in the command:

    node -v



- The command mentioned above displays the Node JS version installed in your practice lab

- If Node JS is not installed in your practice lab, you can install it by using the commands:

    sudo apt-get update
    sudo apt-get install nodejs