

JAVA PROGRAMMING ONE

FALL 20201 | THE ICT UNIVERSITY

ELEMENTARY JAVA ASSIGNMENT

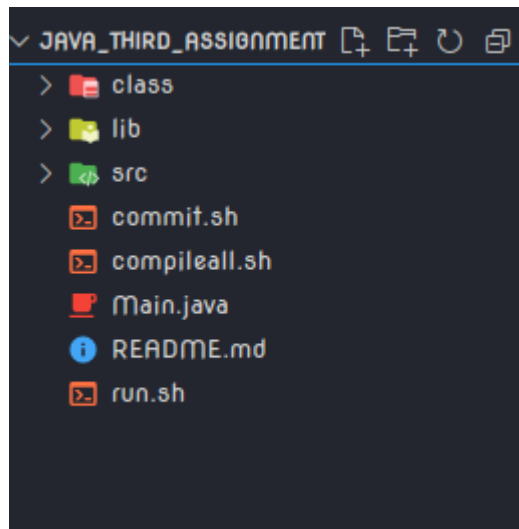
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PROJECT ORGANISATION

The project is organized as follow



Folder/File	Contains/Is
class	Contains all compiled files from src folder. It respects the package path
lib	Contains the jar file of the project
src	Contains all source files
run.sh	This file is a shell file that helps a user to run all compiled files
commit.sh	This file is a helper file that commits and push changes of the local repository to remote github repository
Main.java	This is the driver file that helps user to run the program he wants
compileall.java	This file helps to user to compile all the files by just calling the script

COMPILATION PROCESS

In order to compile the files of this project, Here is the process to follow:

☆ Open the root folder (third_java_assignment)

☆ Compile all the files by just executing

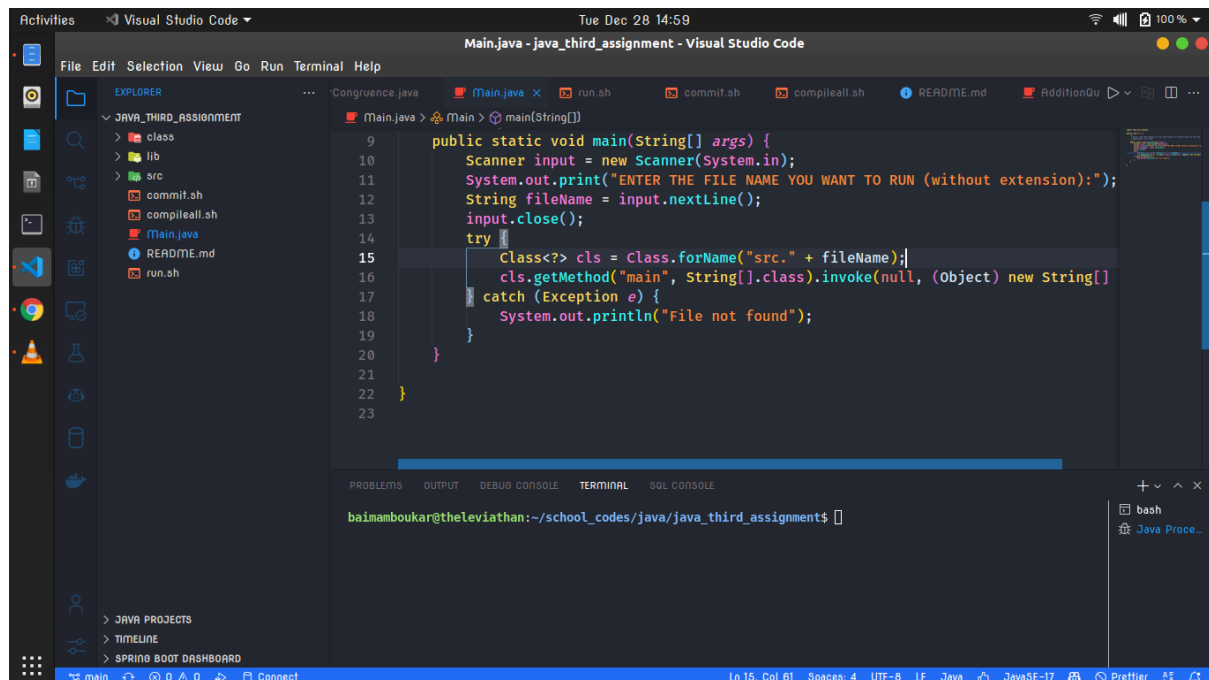
./compileall.sh

Nb: It may happen that your system doesn't accept the file to run. If it is the case, give permissions to this file by executing

chmod +x compileall.sh

RUN FILES

To run the files, just call the run.sh script.

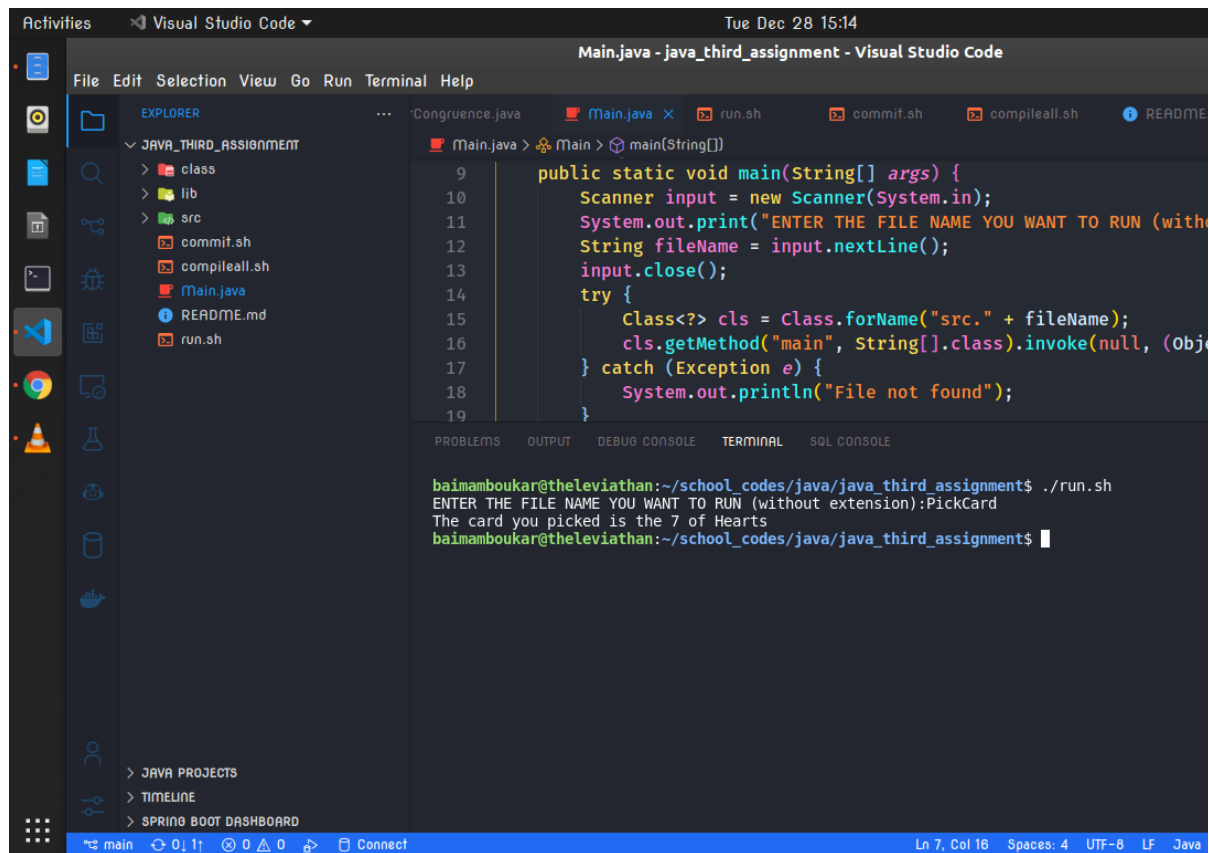


```
public static void main(String[] args) {
    Scanner input = new Scanner(System.in);
    System.out.print("ENTER THE FILE NAME YOU WANT TO RUN (without extension):");
    String fileName = input.nextLine();
    input.close();
    try {
        Class<?> cls = Class.forName("src." + fileName);
        cls.getMethod("main", String[].class).invoke(null, (Object) new String[]
    } catch (Exception e) {
        System.out.println("File not found");
    }
}
```

☆ You will be asked to enter the name of the file you want to run

☆ Enter the name and press Enter

This is an example of it it works



The screenshot displays the Visual Studio Code interface with a Java project named 'JAVA_THIRD_ASSIGNMENT'. The Explorer sidebar on the left shows the project structure, including a 'src' directory with 'Main.java', 'commit.sh', 'compileall.sh', 'README.md', and 'run.sh'. The Editor pane shows the 'Main.java' file with the following code:

```
9 public static void main(String[] args) {
10     Scanner input = new Scanner(System.in);
11     System.out.print("ENTER THE FILE NAME YOU WANT TO RUN (with
12     String fileName = input.nextLine();
13     input.close();
14     try {
15         Class<?> cls = Class.forName("src." + fileName);
16         cls.getMethod("main", String[].class).invoke(null, (obj
17     } catch (Exception e) {
18         System.out.println("File not found");
19     }
```

The TERMINAL pane at the bottom shows the execution of the program. The user runs './run.sh' and enters 'PickCard' as the file name. The program outputs 'The card you picked is the 7 of Hearts'.

```
baimamboukar@theleviathan:~/school_codes/java/java_third_assignment$ ./run.sh
ENTER THE FILE NAME YOU WANT TO RUN (without extension):PickCard
The card you picked is the 7 of Hearts
baimamboukar@theleviathan:~/school_codes/java/java_third_assignment$
```

The status bar at the bottom indicates the current file is 'main' at line 7, column 16, with 4 spaces, UTF-8 encoding, and LF line endings.