Below is structure tree of a project created by Intelliji IDEA tool. I want to track changes of JAVA source code by git. Of couser, I have to git add "src" directory. There are another files or directories created by Intelliji like "out" directory, ".idea" directory and bcjava03\_demo.iml file. Of course, I don't git add "out" directory because it is bytecode compiled by JAVA compiler. Do I need to git add ".idea" directory and bcjava03\_demo.iml file ?

├── bcjava03\_demo.iml

├── .git

├── .gitignore

├── .idea

│ ├── codeStyles

│ │ └── codeStyleConfig.xml

│ ├── inspectionProfiles

│ │ └── Project\_Default.xml

│ ├── misc.xml

│ ├── modules.xml

│ ├── .name

│ ├── uiDesigner.xml

│ ├── vcs.xml

│ └── workspace.xml

├── out

│ └── production

│ └── bcjava03\_demo

│ ├── Baitapbuoi10\_bai1

│ ├── Athlete.class

│ ├── Baitapbuoi10\_bai1.class

│ ├── Baitapbuoi10\_bai2.class

│ └── Fraction.class

└── src

├── Baitapbuoi10\_bai1

├── Athlete.java

├── Baitapbuoi10\_bai1.java

├── Baitapbuoi10\_bai2.java

└── Fraction.java

Ans1:

You generally do not need to add the ".idea" directory and the "bcjava03\_demo.iml" file to your git repository. These files are specific to IntelliJ IDEA and are generated by the IDE for its own configurations and settings. Including them in your git repository can cause issues when collaborating with others or when sharing the project.

Instead, you should add the following to your ".gitignore" file to exclude the IntelliJ IDEA specific files and directories from being tracked by git:

# IntelliJ IDEA specific files and directories

.idea/

bcjava03\_demo.iml

# Compiled output directory

out/

By adding these lines to your ".gitignore" file, you instruct git to ignore changes in the ".idea" directory, the "bcjava03\_demo.iml" file, and the "out" directory (which contains the compiled output). This will prevent these files from being added to your git repository, keeping your project cleaner and avoiding version control issues related to IDE-specific files.

Ans2:

No, you do not need to git add the .idea directory or the bcjava03\_demo.iml file. These files are used by IntelliJ IDEA to manage the project, and they are not part of the source code.

The .idea directory contains configuration files for IntelliJ IDEA, **such as code style settings and project structure**. The bcjava03\_demo.iml file is an IntelliJ IDEA project file that describes the project's structure and dependencies.

These files are not necessary for building or running the project, so they should not be tracked by Git. If you do git add these files, they will be included in your Git repository and will be tracked by Git. This can make your Git repository larger and more difficult to manage.

The out directory contains the compiled bytecode for the project. This directory is also not necessary for building or running the project, so it should not be tracked by Git. If you do git add the out directory, it will be included in your Git repository and will be tracked by Git. This can make your Git repository larger and more difficult to manage.

In general, you should only git add files that are part of the source code for your project. This will keep your Git repository small and manageable.

java\_course\_demo\.idea\workspace.xml

  <component name="RecentsManager">

    <key name="CopyFile.RECENT\_KEYS">

      <recent name="G:\My Drive\JAVA\_course\java\_course\_demo\src\Baitapbuoi9\_bai2" />

      <recent name="G:\My Drive\JAVA\_course\java\_course\_demo\src" />

      <recent name="G:\My Drive\JAVA\_course\java\_course\_demo\src\Baitapbuoi8\_bai4" />

    </key>

  <component name="VcsManagerConfiguration">

    <ignored-roots>

      <path value="$PROJECT\_DIR$" />

    </ignored-roots>

    <MESSAGE value="Fix return -1" />

    <MESSAGE value="Fix menu" />

    <MESSAGE value="Fix bug for FindFirstPrimeNum()" />

    <MESSAGE value="Fix bug in function FindMinEvenInt()" />

    <MESSAGE value="Add menu of exercise 5" />

    <MESSAGE value="Add message &quot;Try again&quot; in default case" />

    <MESSAGE value="Add &quot;Menu: &quot; message" />

    <MESSAGE value="Change while to do...while()" />

    <MESSAGE value="Remove directory out/production" />

    <MESSAGE value="Finished Bai tap buoi 8 - bai 5" />

    <MESSAGE value="Implement generate dummy info data for students in execise Baitapbuoi8\_bai5" />

    <MESSAGE value="Complete execise Baitapbuoi8\_bai5:&#10;• In ra SV có ĐTB cao nhất. In ra danh sách theo mẫu&#10;• In ra tất cả sinh viên Yếu. In ra danh sách theo mẫu&#10;• Tìm sinh viên theo tên. In ra danh sách theo mẫu&#10;• Tìm sinh viên theo mã. In ra danh sách theo mẫu" />

    <MESSAGE value="Remove duplicate name in middle name and last name" />

    <MESSAGE value="Change %n to \n" />

    <MESSAGE value="Add menu, fix String firstName = firstNames[random.nextInt(firstNames.length)];" />

    <MESSAGE value="Delete class Sinhvien1" />

    <MESSAGE value="Delete student based on ID" />

    <MESSAGE value="Convert array to ArrayList to manage student list" />

    <MESSAGE value="Revise the menu" />

    <MESSAGE value="Submit Baitapbuoi8\_bai1" />

    <MESSAGE value="Submit Baitapbuoi8\_bai3" />

    <MESSAGE value="Submit Baitapbuoi10\_bai1" />

    <MESSAGE value="Remove @Override" />

    <MESSAGE value="Code alignment" />

    <MESSAGE value="Input scanner" />

    <option name="LAST\_COMMIT\_MESSAGE" value="Input scanner" />

  </component>

  <component name="XSLT-Support.FileAssociations.UIState">

    <expand />

    <select />

  </component>

  <component name="com.intellij.coverage.CoverageDataManagerImpl">

    <SUITE FILE\_PATH="coverage/bcjava03\_demo\_iml$Baitapbuoi7.ic" NAME="Baitapbuoi7 Coverage Results" MODIFIED="1690684839719" SOURCE\_PROVIDER="com.intellij.coverage.DefaultCoverageFileProvider" RUNNER="idea" COVERAGE\_BY\_TEST\_ENABLED="false" COVERAGE\_TRACING\_ENABLED="false">

      <FILTER>Baitapbuoi7.\*</FILTER>