

**Due: 12:00pm 04/11**

Use the **Direct messages** to send the assignments to me.

*You will be fired if you don't do the assignments. we don't care the quality, we only care you do it or not.*

1. What is the basic steps to init a git repo in you local?

Ans: git init  
touch README.md  
git add README.md

2. How to clone a repo from Github?

Ans:git clone https://,.....git

3. How to create a new branch and checkout to that branch?

Ans:git checkout -b b1

4. How to merge the new-branch to master branch? show me the commands

Ans:git merge b1

5. What is maven role? what it be used to do?

Ans:role:

- Making the build process easy
- Providing a uniform build system
- Providing quality project information
- Encouraging better development practices

6. What is the lifecycle of maven? could you tell me the details?

ans:Maven lifecycle and its 8 steps:

validate >> compile >> test (optional) >> package >> **Integration test** >>verify >>  
install >> deploy

- **validate** - validate the project is correct and all necessary information is available
- **compile** - compile the source code of the project
- **test** - test the compiled source code using a suitable unit testing framework. These tests should not require the code be packaged or deployed
- **package** - take the compiled code and package it in its distributable format, such as a JAR.
- **verify** - run any checks on results of integration tests to ensure quality criteria are met
- **install** - install the package into the local repository, for use as a dependency in other projects locally
- **deploy** - done in the build environment, copies the final package to the remote repository for sharing with other developers and projects.
-

7. what is the difference between **package** and **install** in maven lifecycle?

Ans:

**package**: take the compiled code and package it in its distributable format, such as a JAR.

**install**: install the package into the local repository, for use as a dependency in other projects locally

8. What is difference between passing by value and passing by reference? Could you design a code to verify your understanding and screenshot it to me?

ans:

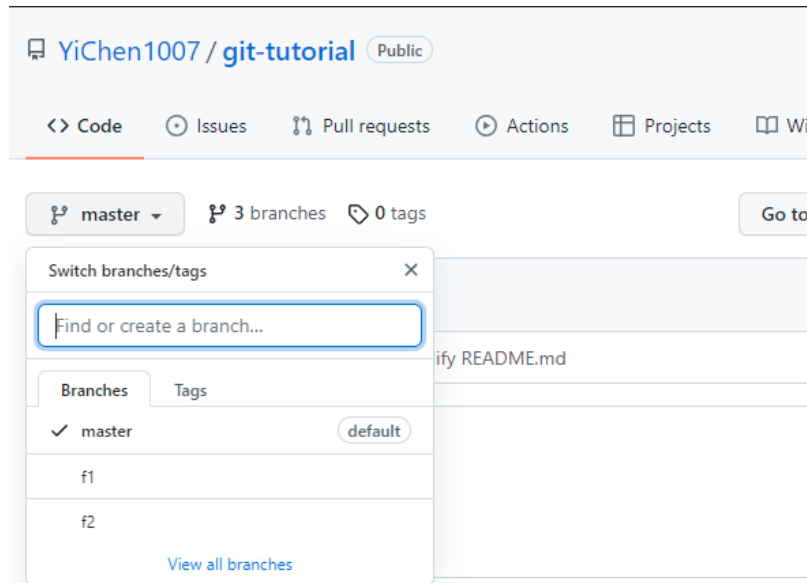
```
public class Practice {
    public static void main(String[] args) {
        String str1 = "haha";
        changeStr(str1);
        System.out.println("Passing by value : " + str1); //haha    passing by value

        /*Passing by reference*/
        StringBuilder str2 = new StringBuilder("ooo");
        StringBuilder str3 = str2;
        addStr(str3);
        System.out.println("Passing by refer: " + str2); //000666
    }

    static void changeStr(String str1){
        str1 = "byebye";
    }

    static void addStr(StringBuilder str2){
        str2.append("666");
    }
}
```

9. practice git and github then provide one screenshot to prove you have done it.



ans:

10. create a maven project using IntelliJ like the teacher did in the class, send screenshot to me.

(edited)

