

# CS5500 HW1

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1) Configure name, email and editor

```
> git config --global user.name sanghavis
> git config --global user.email sanghavi.s@husky.neu.edu
> git config --global core.editor "vim"
> git config --list

credential.helper=osxkeychain
user.name=sanghavis
user.email=sanghavi.s@husky.neu.edu
core.autocrlf=input
core.editor=vim
http.sslverify=false
```

**Question: What are your git config's?**

user.name : sanghavis

user.email : sanghavi.s@husky.neu.edu

core.editor: vim

2) Cloning repository:

```
→ git ls -a
.
..
→ git clone https://github.ccs.neu.edu/cs5500/Student-246-SP19.git
Cloning into 'Student-246-SP19'...
remote: Enumerating objects: 19, done.
remote: Counting objects: 100% (19/19), done.
remote: Compressing objects: 100% (16/16), done.
remote: Total 19 (delta 6), reused 0 (delta 0), pack-reused 0
Unpacking objects: 100% (19/19), done.
→ git ls -a
.
..
Student-246-SP19
→ git cd Student-246-SP19
→ Student-246-SP19 git:(master) ls -a
.
..
.git
README.md
grading
homework_1
homework_2
homework_3
homework_4
homework_5
sprint_Review
```

**Question: What files or directories are in the .git directory?**

COMMIT_EDITMSG	packed-refs	logs
description	HEAD	refs
info	hooks	config
index	objects	

3) Edit README file

```
→ Student-246-SP19 git:(master) ✗ nano README.md
→ Student-246-SP19 git:(master) ✗ git add README.md
→ Student-246-SP19 git:(master) ✗ git commit -m "Update README"
→ Student-246-SP19 git:(master) git push
```

**QUESTION: Using markdown, how would one express a link to the course web page (<https://course.ccs.neu.edu/cs5500>)? Put the markdown command into your answer as text.**

**Command:** [course CS5500 - Managing Software Development (MSD)](<https://course.ccs.neu.edu/cs5500>)

4) .gitignore contains,

- \*.class
- \*.log
- \*.jar

5) Create branch feature-1

```
→ Student-246-SP19 git:(master) git checkout -b feature-1
```

6) Create Maven project

```
→ homework_1 git:(feature-1) mvn archetype:generate -
DgroupId=sanghavid -DartifactId=msd -
DarchetypeArtifactId=maven-archetype-quickstart -
DinteractiveMode=false
```

**QUESTION: What is the content of your pom.xml?**

```

<project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/
XMLSchema-instance"
  xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/maven-
v4_0_0.xsd">
  <modelVersion>4.0.0</modelVersion>
  <groupId>sanghavid</groupId>
  <artifactId>msd</artifactId>
  <packaging>jar</packaging>
  <version>1.0-SNAPSHOT</version>
  <name>msd</name>
  <url>http://maven.apache.org</url>
  <dependencies>
    <dependency>
      <groupId>junit</groupId>
      <artifactId>junit</artifactId>
      <version>3.8.1</version>
      <scope>test</scope>
    </dependency>
  </dependencies>
</project>

```

7)

```

<project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/
XMLSchema-instance"
  xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/maven-
v4_0_0.xsd">
  <properties>
    <maven.compiler.source>1.6</maven.compiler.source>
    <maven.compiler.target>1.6</maven.compiler.target>
  </properties>
  <modelVersion>4.0.0</modelVersion>
  <groupId>sanghavid</groupId>
  <artifactId>msd</artifactId>
  <packaging>jar</packaging>
  <version>1.0-SNAPSHOT</version>
  <name>msd</name>
  <url>http://maven.apache.org</url>
  <dependencies>
    <dependency>
      <groupId>junit</groupId>
      <artifactId>junit</artifactId>
      <version>4.12</version>
      <scope>test</scope>
    </dependency>
  </dependencies>
</project>

```

8)

Commits:

Message : add feature to return consecutive numbers between numbers

**Directories and subdirectories on Feature1 in Homework 1**

| -src

```
|---main
|----java
|-----sanghavid
|---test
|----java
|-----sanghavid
|-target
|---classes
|----sanghavid
|---generated-sources
|----annotations
|---generated-test-sources
|----test-annotations
|---maven-archiver
|---maven-status
|----maven-compiler-plugin
|-----compile
|-----default-compile
|-----testCompile
|-----default-testCompile
|---surefire-reports
|---test-classes
|— —sanghavid
```

### **Directories and subdirectories on master in Homework 1**

Nothing

9)

```
git checkout master
git merge feature-1
git push
```

10)

```
git checkout -b feature-2
git push origin feature-2
```

11)

```
git checkout -b feature-3
git push origin feature-3
```

12)

Question : What are all the commits you've made on the feature-2 branch?

Commit message: Add feature to print consecutive odd numbers between two numbers

13)

Question : What are all the commits you've made on the feature-3 branch?

Commit message: Add feature to print consecutive even numbers between two numbers

14)

```
git checkout master
git merge feature-2
```

15)

git merge feature-3

Conflict :

1) In method to return sequence

```
<<<<<< HEAD
                if(i%2!=0) {
=====
                if(i%2==0) {
>>>>>> feature-3
                this.numList.add(i);
                }
            }
```

2) In test file

```
<<<<<< HEAD
                this.testOutList.add(3);
=====
                this.testOutList.add(4);
>>>>>> feature-3
```

16)

git diff master feature-1

```
diff --git a/homework_1/hw1-mvn/src/main/java/sanghavid/
ConsNumbers.java b/homework_1/hw1-mvn/src/main/java/sanghavid/
ConsNumbers.java
index 3b23d04..370ca6d 100644
--- a/homework_1/hw1-mvn/src/main/java/sanghavid/
ConsNumbers.java
+++ b/homework_1/hw1-mvn/src/main/java/sanghavid/
ConsNumbers.java
@@ -39,9 +39,7 @@ public class ConsNumbers implements Sequence{
    num1 = num1-num2;
    }
    for (int i=num1+1; i<num2; i++){
-        if(i%2!=0) {
-            this.numList.add(i);
-        }
+        this.numList.add(i);
    }
    return this.numList;
}
```

```

diff --git a/homework_1/hw1-mvn/src/test/java/sanghavid/
SequenceTest.java b/homework_1/hw1-mvn/src/test/java/sanghavid/
SequenceTest.java
index 82c3398..5e37e42 100644
--- a/homework_1/hw1-mvn/src/test/java/sanghavid/
SequenceTest.java
+++ b/homework_1/hw1-mvn/src/test/java/sanghavid/
SequenceTest.java
@@ -27,6 +27,7 @@ public class SequenceTest {
    this.num3 = 5;
    this.testOutList = new ArrayList<Integer>();
    this.testOutList.add(3);
+   this.testOutList.add(4);
}

/**

```

git diff master feature-2  
Nothing

git diff master feature-3

```

diff --git a/homework_1/hw1-mvn/src/main/java/sanghavid/
ConsNumbers.java b/homework_1/hw1-mvn/src/main/java/sanghavid/
ConsNumbers.java
index 3b23d04..95b564f 100644
--- a/homework_1/hw1-mvn/src/main/java/sanghavid/
ConsNumbers.java
+++ b/homework_1/hw1-mvn/src/main/java/sanghavid/
ConsNumbers.java
@@ -39,7 +39,7 @@ public class ConsNumbers implements Sequence{
    num1 = num1-num2;
}
for (int i=num1+1; i<num2; i++){
-   if(i%2!=0) {
+   if(i%2==0) {
        this.numList.add(i);
    }
}
}
diff --git a/homework_1/hw1-mvn/src/test/java/sanghavid/
SequenceTest.java b/homework_1/hw1-mvn/src/test/java/sanghavid/
SequenceTest.java
index 82c3398..d7c9a3b 100644
--- a/homework_1/hw1-mvn/src/test/java/sanghavid/
SequenceTest.java

```

```
+++ b/homework_1/hw1-mvn/src/test/java/sanghavid/  
SequenceTest.java  
@@ -26,7 +26,7 @@ public class SequenceTest {  
    this.num2 = 2;  
    this.num3 = 5;  
    this.testOutList = new ArrayList<Integer>();  
-    this.testOutList.add(3);  
+    this.testOutList.add(4);  
}  
  
/**
```

17)

git push origin master feature-1 feature-2 feature-3 revert-feature-3