

# CS5500 HW1

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## STEP 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

## STEP 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	

### STEP 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/>)

### STEP 4

.gitignore contains,

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

### STEP 5

Create branch feature-1

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

### STEP 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>
```

**STEP 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>
```

**STEP 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

### **STEP 9**

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

### **STEP 10**

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

### **STEP 11**

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

### **STEP 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

### **STEP 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

### **STEP 14**

```
git checkout master
```

git merge feature-2

## STEP 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
```

## STEP 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);  
}  
  
/**
```

### STEP 17

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