

Software Methods and Tools

Assignment 7

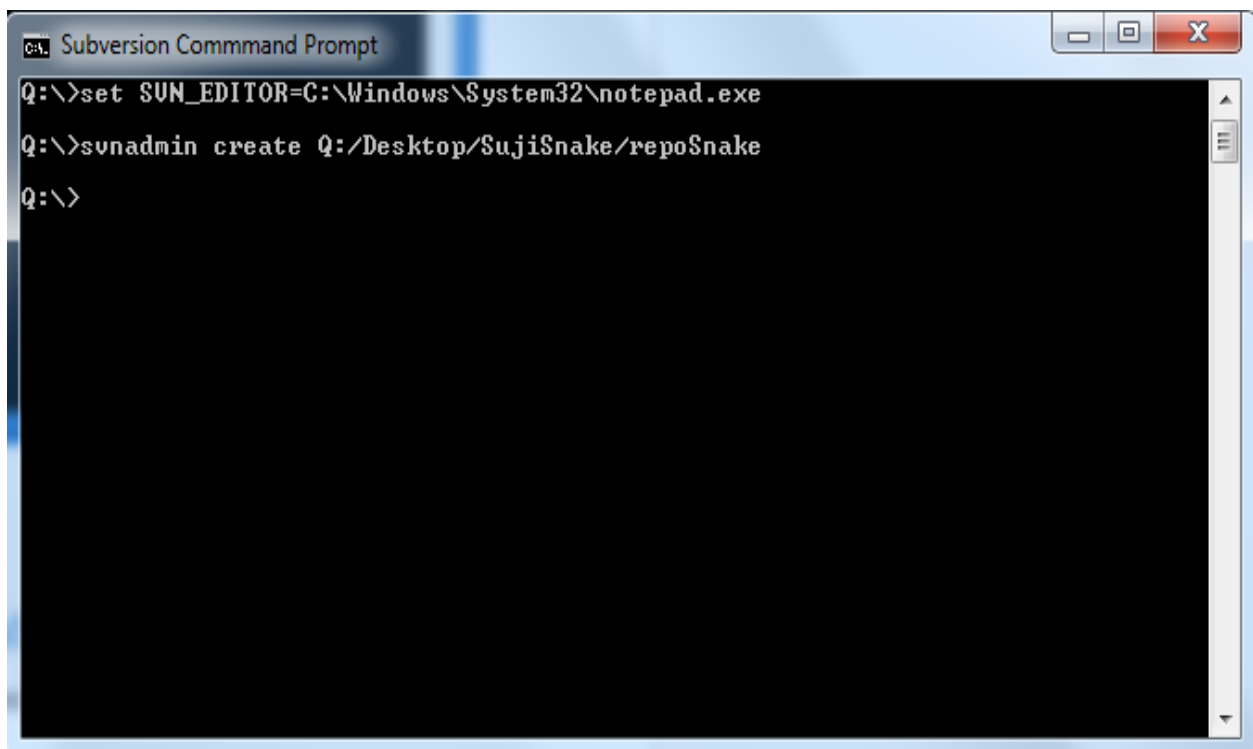
1. Create a new repository, and create a project named “Snake” at the root of your repository. Then create the following folders under “Snake”: “trunk”, “branches”, and “tags”. Submit a screenshot that shows the content the “Snake” folder.

Command to make Windows’ Notepad application to edit the Subversion messages

```
“set SVN_EDITOR=C:\Windows\System32\notepad.exe”
```

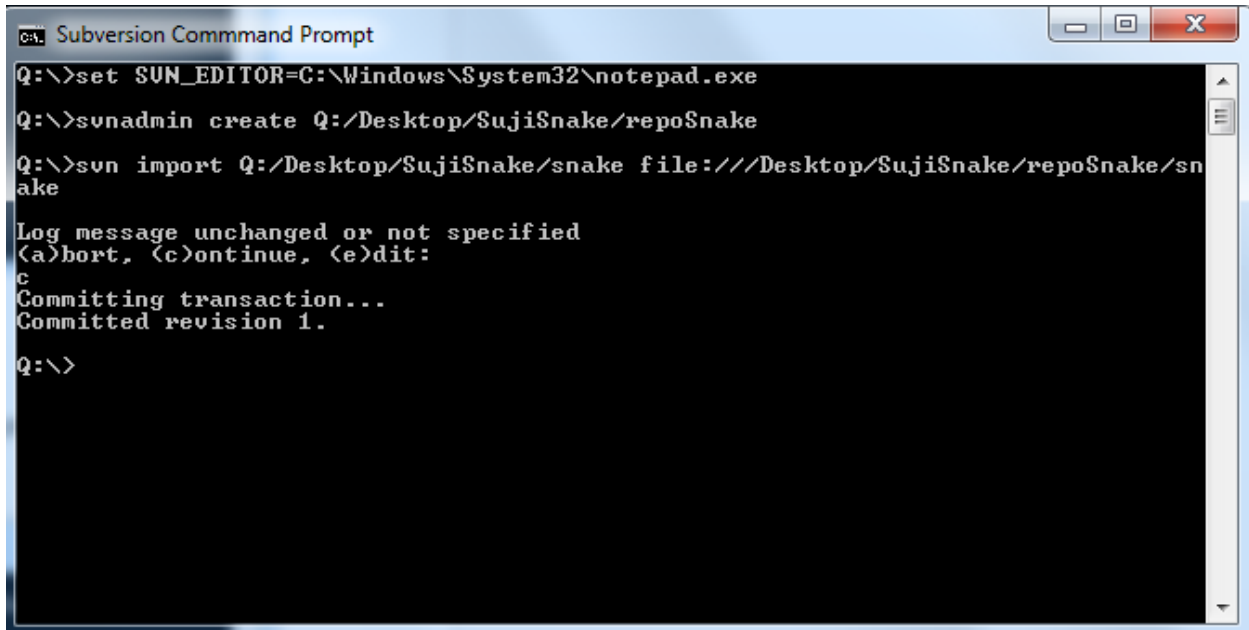
Creating a Repository with name repoSnake in folder

[\\kc.umkc.edu\kcusers\home\s\spb4b\Desktop\SujiSanke](http://kc.umkc.edu/kcusers/home/s/spb4b/Desktop/SujiSanke).



```
C:\> Subversion Command Prompt
Q:\>set SVN_EDITOR=C:\Windows\System32\notepad.exe
Q:\>svnadmin create Q:/Desktop/SujiSnake/repoSnake
Q:\>
```

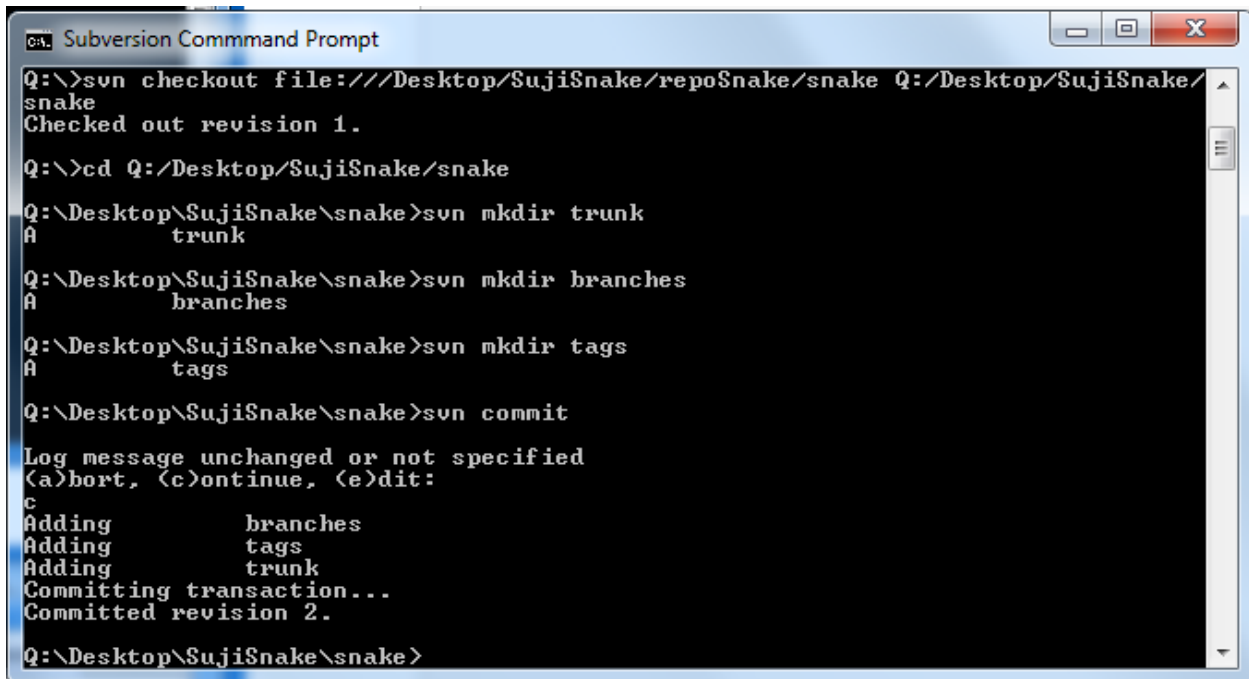
Creating new folder Snake at the root of Repository repoSnake and creating a project into repository,



```
Subversion Command Prompt
Q:\>set SUN_EDITOR=C:\Windows\System32\notepad.exe
Q:\>svnadmin create Q:/Desktop/SujiSnake/repoSnake
Q:\>svn import Q:/Desktop/SujiSnake/snake file:///Desktop/SujiSnake/repoSnake/snake
Log message unchanged or not specified
(a)bort, (c)ontinue, (e)dit:
c
Committing transaction...
Committed revision 1.
Q:\>
```

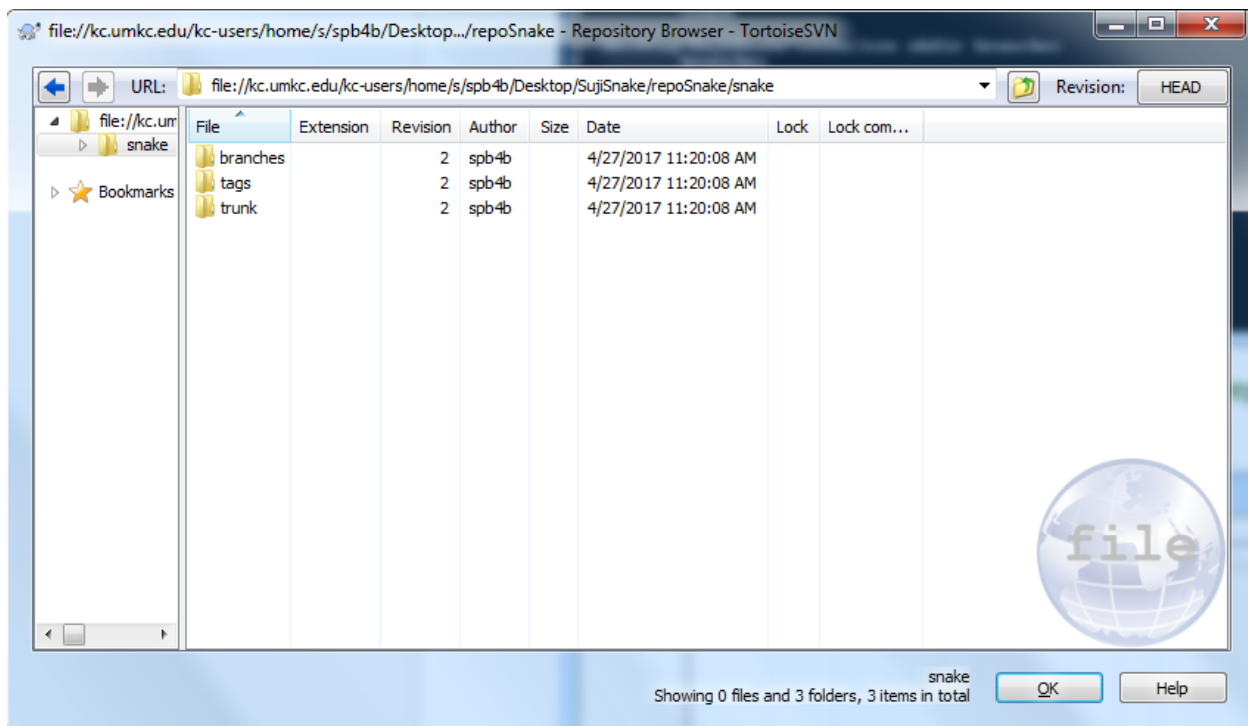
THE REVISION NUMBER “1” is created in the repository.

Creating the folders under “Snake” : “trunk”, “branches”, “tags” and verifying through SVN if these folders exist in repository.

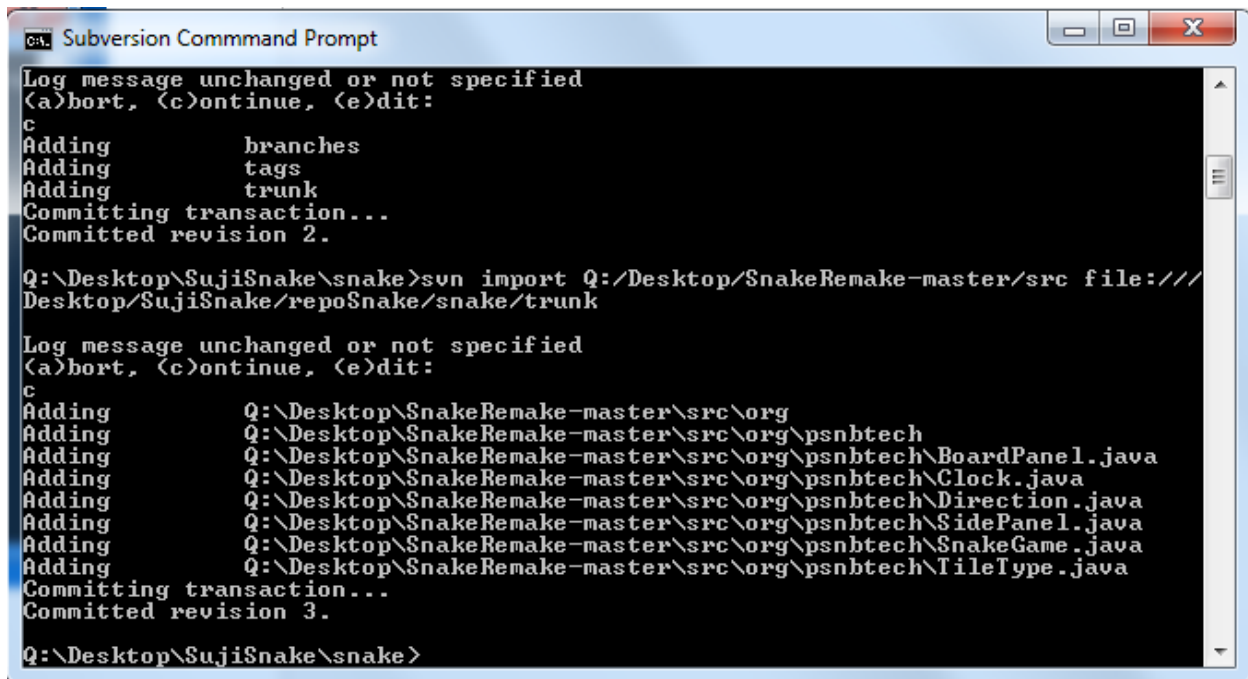


```
Subversion Command Prompt
Q:\>svn checkout file:///Desktop/SujiSnake/repoSnake/snake Q:/Desktop/SujiSnake/snake
Checked out revision 1.
Q:\>cd Q:/Desktop/SujiSnake/snake
Q:\Desktop\SujiSnake\snake>svn mkdir trunk
A      trunk
Q:\Desktop\SujiSnake\snake>svn mkdir branches
A      branches
Q:\Desktop\SujiSnake\snake>svn mkdir tags
A      tags
Q:\Desktop\SujiSnake\snake>svn commit
Log message unchanged or not specified
(a)bort, (c)ontinue, (e)dit:
c
Adding      branches
Adding      tags
Adding      trunk
Committing transaction...
Committed revision 2.
Q:\Desktop\SujiSnake\snake>
```

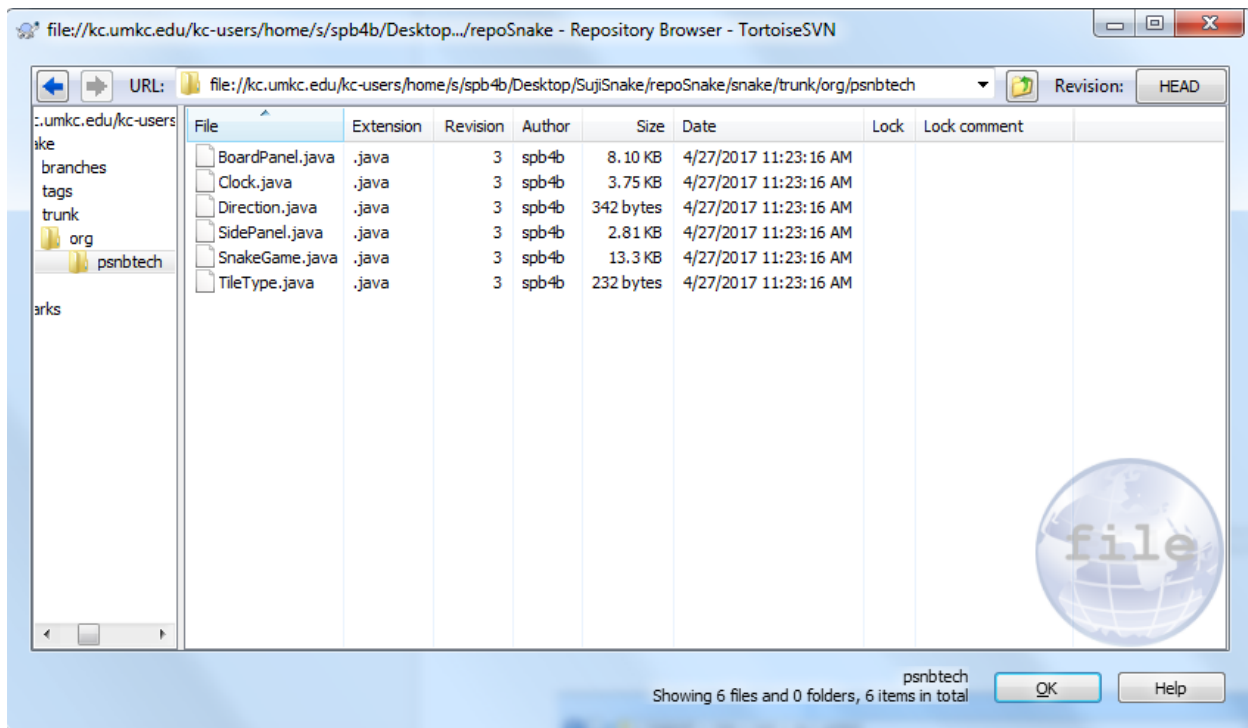
THE REVISION NUMBER “2” is created in the repository.



2. Download the source code from <https://github.com/PSNB92/SnakeRemake>. Put the unzipped source code (i.e. *.java) of the Snake application into the "trunk" folder of the repository. Keep the original file structure (i.e. org.psnbtech.*). Submit another screenshot that shows the content of the source code folder in the repository.



THE REVISION NUMBER “3” is created in the repository.



3. Create three working copies of the Snake application. You can do this by checking out the project “Snake/trunk” into three different folders, one for each developer (e.g. Bill, Mary, and Ben). The folders you created should be named as SnakeBill, SnakeMary, and SnakeBen.

Creating the three-new working copy as

- SnakeBill - Q:/Desktop/SujiSnake/SnakeBill
- SnakeMary - Q:/Desktop/SujiSnake/SnakeMary
- SnakeBen - Q:/Desktop/SujiSnake/SnakeBen

Checkout the repository into theses 3 working copy.

```
Subversion Command Prompt

Q:\Desktop\SujiSnake\sna...>svn checkout file:///Desktop/SujiSnake/repoSnake/snak
e/trunk Q:\Desktop\SujiSnake\SnakeBill
A   Q:\Desktop\SujiSnake\SnakeBill\org
A   Q:\Desktop\SujiSnake\SnakeBill\org\psnbtech
A   Q:\Desktop\SujiSnake\SnakeBill\org\psnbtech\BoardPanel.java
A   Q:\Desktop\SujiSnake\SnakeBill\org\psnbtech\Clock.java
A   Q:\Desktop\SujiSnake\SnakeBill\org\psnbtech\Direction.java
A   Q:\Desktop\SujiSnake\SnakeBill\org\psnbtech\SidePanel.java
A   Q:\Desktop\SujiSnake\SnakeBill\org\psnbtech\SnakeGame.java
A   Q:\Desktop\SujiSnake\SnakeBill\org\psnbtech\TileType.java
Checked out revision 3.

Q:\Desktop\SujiSnake\sna...>svn checkout file:///Desktop/SujiSnake/repoSnake/snak
e/trunk Q:\Desktop\SujiSnake\SnakeMary
A   Q:\Desktop\SujiSnake\SnakeMary\org
A   Q:\Desktop\SujiSnake\SnakeMary\org\psnbtech
A   Q:\Desktop\SujiSnake\SnakeMary\org\psnbtech\BoardPanel.java
A   Q:\Desktop\SujiSnake\SnakeMary\org\psnbtech\Clock.java
A   Q:\Desktop\SujiSnake\SnakeMary\org\psnbtech\Direction.java
A   Q:\Desktop\SujiSnake\SnakeMary\org\psnbtech\SidePanel.java
A   Q:\Desktop\SujiSnake\SnakeMary\org\psnbtech\SnakeGame.java
A   Q:\Desktop\SujiSnake\SnakeMary\org\psnbtech\TileType.java
Checked out revision 3.

Q:\Desktop\SujiSnake\sna...>svn checkout file:///Desktop/SujiSnake/repoSnake/snak
e/trunk Q:\Desktop\SujiSnake\SnakeBen
A   Q:\Desktop\SujiSnake\SnakeBen\org
A   Q:\Desktop\SujiSnake\SnakeBen\org\psnbtech
A   Q:\Desktop\SujiSnake\SnakeBen\org\psnbtech\BoardPanel.java
A   Q:\Desktop\SujiSnake\SnakeBen\org\psnbtech\Clock.java
A   Q:\Desktop\SujiSnake\SnakeBen\org\psnbtech\Direction.java
A   Q:\Desktop\SujiSnake\SnakeBen\org\psnbtech\SidePanel.java
A   Q:\Desktop\SujiSnake\SnakeBen\org\psnbtech\SnakeGame.java
A   Q:\Desktop\SujiSnake\SnakeBen\org\psnbtech\TileType.java
Checked out revision 3.

Q:\Desktop\SujiSnake\sna...>
```

4. Simulate the following events by performing the corresponding operations. After each event: (1) check the revision number of the SnakeGame.java file in the repository and in each working copy, and fill in the table below; (2) describe what problems (i.e. conflicts) you had in each event, and how you resolved them. (3) submit a screenshot showing the revision numbers of the Java files in Mary's working copy.

```
Subversion Command Prompt

Q:\Desktop\SujiSnake\snake>cd Q:/Desktop/SujiSnake/SnakeBill
Q:\Desktop\SujiSnake\SnakeBill>svn status -v
      3      3 spb4b      .
      3      3 spb4b      org
      3      3 spb4b      org\psnbtech
      3      3 spb4b      org\psnbtech\BoardPanel.java
      3      3 spb4b      org\psnbtech\Clock.java
      3      3 spb4b      org\psnbtech\Direction.java
      3      3 spb4b      org\psnbtech\SidePanel.java
      3      3 spb4b      org\psnbtech\SnakeGame.java
      3      3 spb4b      org\psnbtech\TileType.java

Q:\Desktop\SujiSnake\SnakeBill>cd Q:/Desktop/SujiSnake/SnakeMary
Q:\Desktop\SujiSnake\SnakeMary>svn status -v
      3      3 spb4b      .
      3      3 spb4b      org
      3      3 spb4b      org\psnbtech
      3      3 spb4b      org\psnbtech\BoardPanel.java
      3      3 spb4b      org\psnbtech\Clock.java
      3      3 spb4b      org\psnbtech\Direction.java
      3      3 spb4b      org\psnbtech\SidePanel.java
      3      3 spb4b      org\psnbtech\SnakeGame.java
      3      3 spb4b      org\psnbtech\TileType.java

Q:\Desktop\SujiSnake\SnakeMary>cd Q:/Desktop/SujiSnake/SnakeBen
Q:\Desktop\SujiSnake\SnakeBen>svn status -v
      3      3 spb4b      .
      3      3 spb4b      org
      3      3 spb4b      org\psnbtech
      3      3 spb4b      org\psnbtech\BoardPanel.java
      3      3 spb4b      org\psnbtech\Clock.java
      3      3 spb4b      org\psnbtech\Direction.java
      3      3 spb4b      org\psnbtech\SidePanel.java
      3      3 spb4b      org\psnbtech\SnakeGame.java
      3      3 spb4b      org\psnbtech\TileType.java

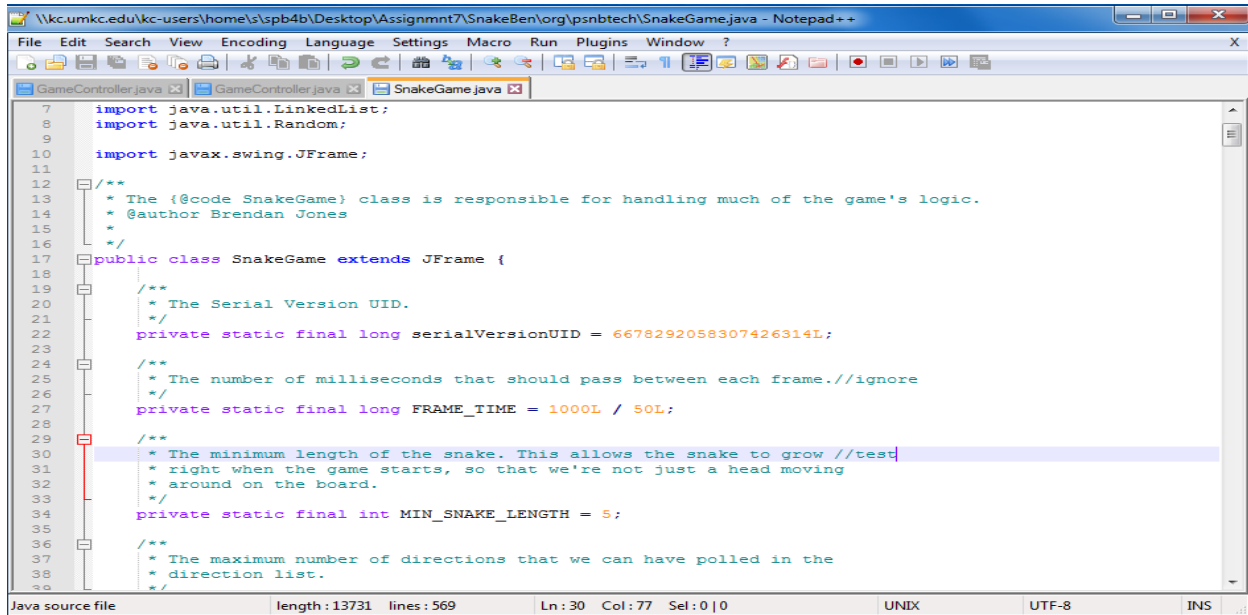
Q:\Desktop\SujiSnake\SnakeBen>
```

THE REVISION NUMBER IN ALL THE WORKING COPY IS “3”.

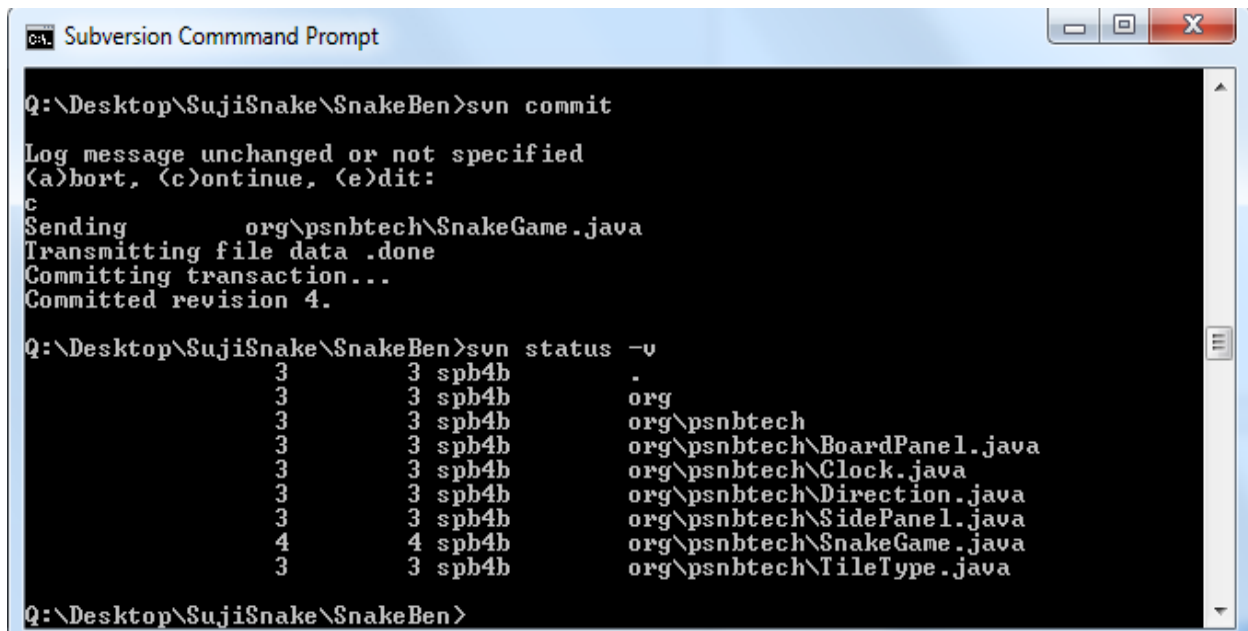
EVENT #1:

Ben made some changes to SnakeGame.java: (1) added a comment “//ignore” at the end of Line 25, and a comment “//test” at the end of Line 30. Then Ben committed his changes to the repository.

Modifying Code:



```
7 import java.util.LinkedList;
8 import java.util.Random;
9
10 import javax.swing.JFrame;
11
12 /**
13  * The {@code SnakeGame} class is responsible for handling much of the game's logic.
14  * @author Brendan Jones
15  */
16
17 public class SnakeGame extends JFrame {
18
19     /**
20      * The Serial Version UID.
21      */
22     private static final long serialVersionUID = 6678292058307426314L;
23
24     /**
25      * The number of milliseconds that should pass between each frame.//ignore
26      */
27     private static final long FRAME_TIME = 1000L / 50L;
28
29     /**
30      * The minimum length of the snake. This allows the snake to grow //test
31      * right when the game starts, so that we're not just a head moving
32      * around on the board.
33      */
34     private static final int MIN_SNAKE_LENGTH = 5;
35
36     /**
37      * The maximum number of directions that we can have polled in the
38      * direction list.
39      */
40 }
```



```
Q:\Desktop\SujiSnake\SnakeBen>svn commit
Log message unchanged or not specified
(a)bort, (c)ontinue, (e)dit:
c
Sending          org\psnbtech\SnakeGame.java
Transmitting file data .done
Committing transaction...
Committed revision 4.

Q:\Desktop\SujiSnake\SnakeBen>svn status -v
      3          3 spb4b      .
      3          3 spb4b      org
      3          3 spb4b      org\psnbtech
      3          3 spb4b      org\psnbtech\BoardPanel.java
      3          3 spb4b      org\psnbtech\Clock.java
      3          3 spb4b      org\psnbtech\Direction.java
      3          3 spb4b      org\psnbtech\SidePanel.java
      4          4 spb4b      org\psnbtech\SnakeGame.java
      3          3 spb4b      org\psnbtech\TileType.java

Q:\Desktop\SujiSnake\SnakeBen>
```

THE REVISION NUMBER OF REPOSITORY IS "4" AFTER COMMIT.

```
Subversion Command Prompt

Sending      org\psnbtech\SnakeGame.java
Transmitting file data .done
Committing transaction...
Committed revision 4.

Q:\Desktop\SujiSnake\SnakeBen>svn status -v
      3      3 spb4b      .
      3      3 spb4b      org
      3      3 spb4b      org\psnbtech
      3      3 spb4b      org\psnbtech\BoardPanel.java
      3      3 spb4b      org\psnbtech\Clock.java
      3      3 spb4b      org\psnbtech\Direction.java
      3      3 spb4b      org\psnbtech\SidePanel.java
      4      4 spb4b      org\psnbtech\SnakeGame.java
      3      3 spb4b      org\psnbtech\TileType.java

Q:\Desktop\SujiSnake\SnakeBen>cd ../SnakeMary
The system cannot find the path specified.

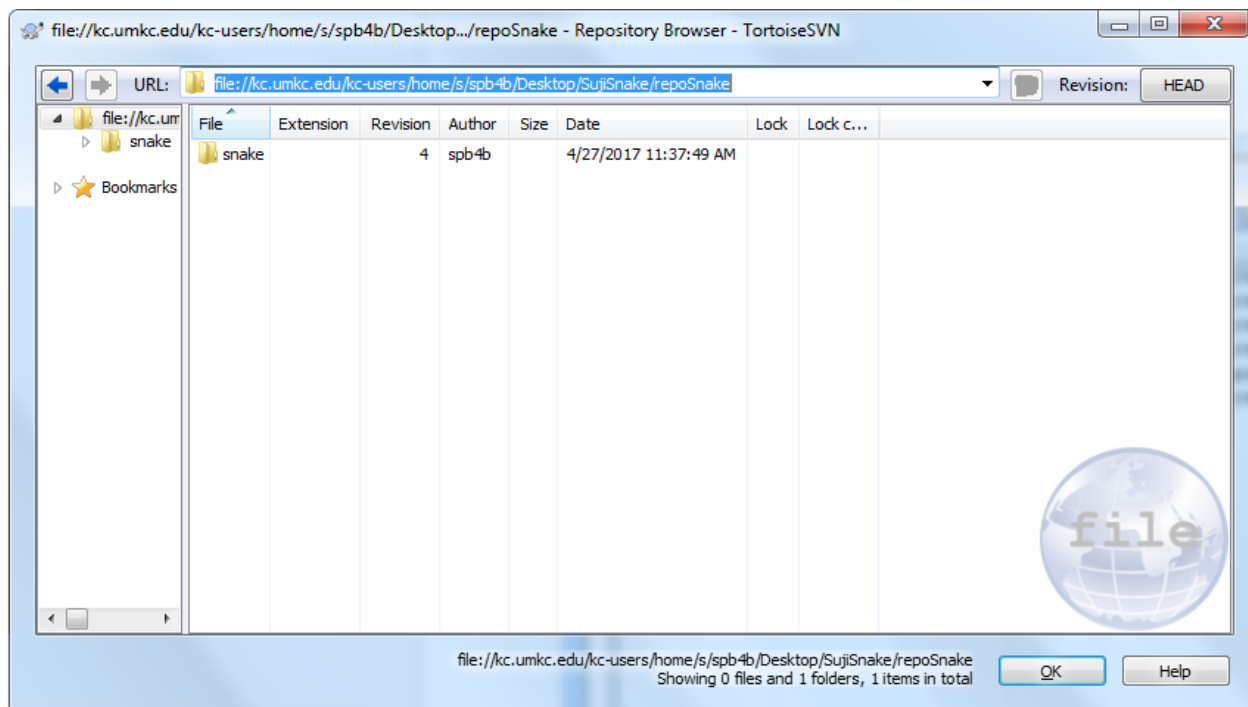
Q:\Desktop\SujiSnake\SnakeBen>cd ../SnakeMary

Q:\Desktop\SujiSnake\SnakeMary>svn status -v
      3      3 spb4b      .
      3      3 spb4b      org
      3      3 spb4b      org\psnbtech
      3      3 spb4b      org\psnbtech\BoardPanel.java
      3      3 spb4b      org\psnbtech\Clock.java
      3      3 spb4b      org\psnbtech\Direction.java
      3      3 spb4b      org\psnbtech\SidePanel.java
      3      3 spb4b      org\psnbtech\SnakeGame.java
      3      3 spb4b      org\psnbtech\TileType.java

Q:\Desktop\SujiSnake\SnakeMary>cd ../SnakeBill

Q:\Desktop\SujiSnake\SnakeBill>svn status -v
      3      3 spb4b      .
      3      3 spb4b      org
      3      3 spb4b      org\psnbtech
      3      3 spb4b      org\psnbtech\BoardPanel.java
      3      3 spb4b      org\psnbtech\Clock.java
      3      3 spb4b      org\psnbtech\Direction.java
      3      3 spb4b      org\psnbtech\SidePanel.java
      3      3 spb4b      org\psnbtech\SnakeGame.java
      3      3 spb4b      org\psnbtech\TileType.java

Q:\Desktop\SujiSnake\SnakeBill>
```

Problems Faced: None

Revision Numbers of SnakeGame.java:

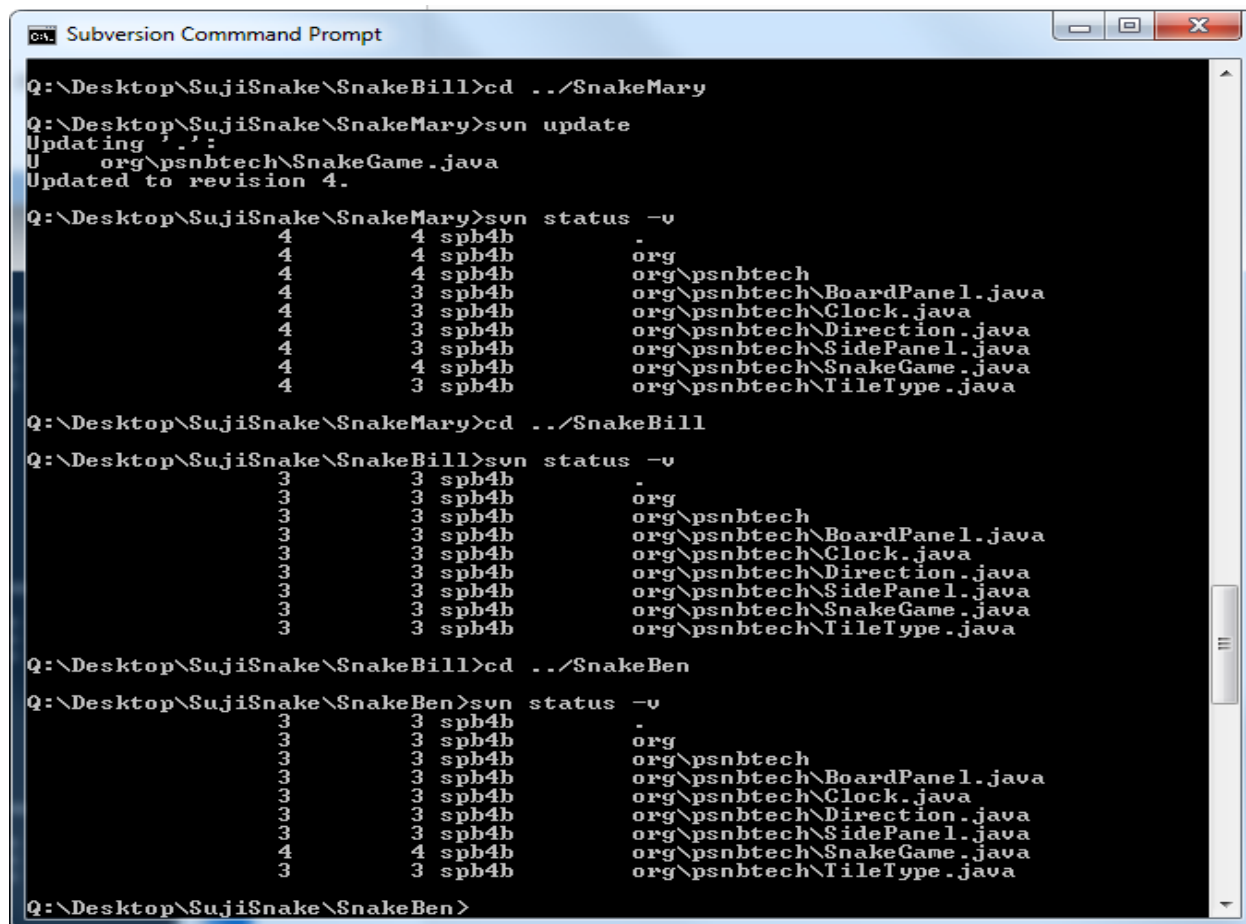
Event	Repository	Bill	Mary	Ben
1	4	3	3	4

Description: As only Ben has committed his modified code, so the repository and ben revision number became 4. Still Bill and Mary did not take their update of the repository their revision number would be still 3.

EVENT #2:

Mary synchronized her working copy with the repository.

Mary SVN Update:



```
Q:\Desktop\SujiSnake\SnakeBill>cd ../SnakeMary
Q:\Desktop\SujiSnake\SnakeMary>svn update
Updating '.':
U    org\psnbtech\SnakeGame.java
Updated to revision 4.
Q:\Desktop\SujiSnake\SnakeMary>svn status -v
      4      4 spb4b      -
      4      4 spb4b      org
      4      4 spb4b      org\psnbtech
      4      3 spb4b      org\psnbtech\BoardPanel.java
      4      3 spb4b      org\psnbtech\Clock.java
      4      3 spb4b      org\psnbtech\Direction.java
      4      3 spb4b      org\psnbtech\SidePanel.java
      4      4 spb4b      org\psnbtech\SnakeGame.java
      4      3 spb4b      org\psnbtech\TileType.java
Q:\Desktop\SujiSnake\SnakeMary>cd ../SnakeBill
Q:\Desktop\SujiSnake\SnakeBill>svn status -v
      3      3 spb4b      -
      3      3 spb4b      org
      3      3 spb4b      org\psnbtech
      3      3 spb4b      org\psnbtech\BoardPanel.java
      3      3 spb4b      org\psnbtech\Clock.java
      3      3 spb4b      org\psnbtech\Direction.java
      3      3 spb4b      org\psnbtech\SidePanel.java
      3      3 spb4b      org\psnbtech\SnakeGame.java
      3      3 spb4b      org\psnbtech\TileType.java
Q:\Desktop\SujiSnake\SnakeBill>cd ../SnakeBen
Q:\Desktop\SujiSnake\SnakeBen>svn status -v
      3      3 spb4b      -
      3      3 spb4b      org
      3      3 spb4b      org\psnbtech
      3      3 spb4b      org\psnbtech\BoardPanel.java
      3      3 spb4b      org\psnbtech\Clock.java
      3      3 spb4b      org\psnbtech\Direction.java
      3      3 spb4b      org\psnbtech\SidePanel.java
      4      4 spb4b      org\psnbtech\SnakeGame.java
      3      3 spb4b      org\psnbtech\TileType.java
Q:\Desktop\SujiSnake\SnakeBen>
```

Problems Faced: None

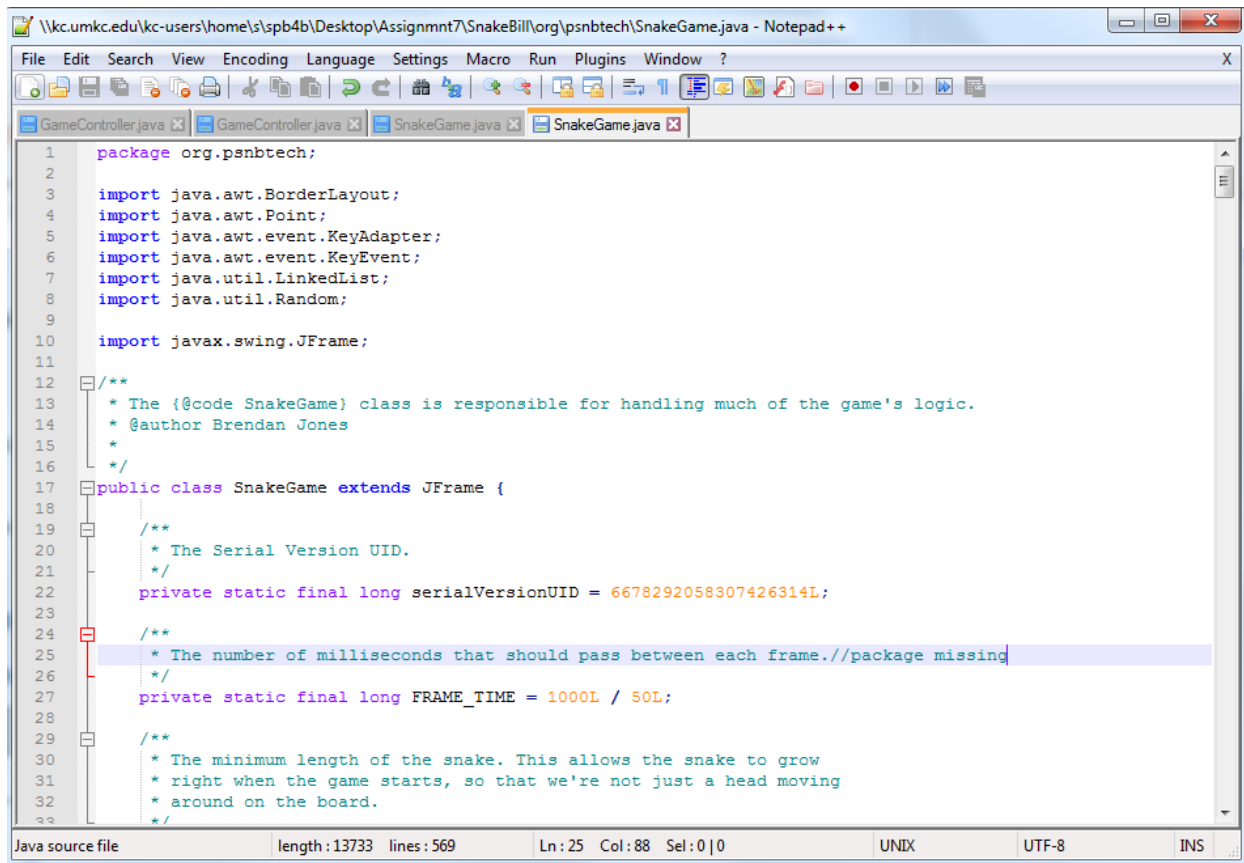
Revision Numbers of SnakeGame.java:

Event	Repository	Bill	Mary	Ben
2	4	3	4	4

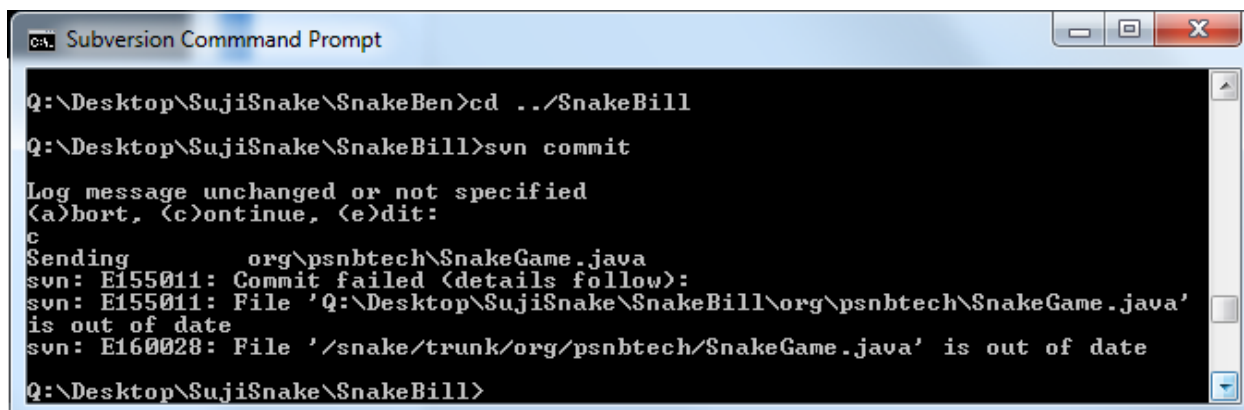
Description: As Mary took the update her revision number changes to 4 after synchronization with the parent repository.

EVENT #3:

Bill made a change to SnakeGame.java: added a comment “//package missing.” at the end of line 25. Bill resolved the conflicts, and committed his change to the repository.



```
1 package org.psnbtech;
2
3 import java.awt.BorderLayout;
4 import java.awt.Point;
5 import java.awt.event.KeyAdapter;
6 import java.awt.event.KeyEvent;
7 import java.util.LinkedList;
8 import java.util.Random;
9
10 import javax.swing.JFrame;
11
12 /**
13  * The {@code SnakeGame} class is responsible for handling much of the game's logic.
14  * @author Brendan Jones
15  */
16
17 public class SnakeGame extends JFrame {
18
19     /**
20      * The Serial Version UID.
21      */
22     private static final long serialVersionUID = 6678292058307426314L;
23
24     /**
25      * The number of milliseconds that should pass between each frame.//package missing
26      */
27     private static final long FRAME_TIME = 1000L / 50L;
28
29     /**
30      * The minimum length of the snake. This allows the snake to grow
31      * right when the game starts, so that we're not just a head moving
32      * around on the board.
33      */
34 }
```



```
C:\> Subversion Command Prompt

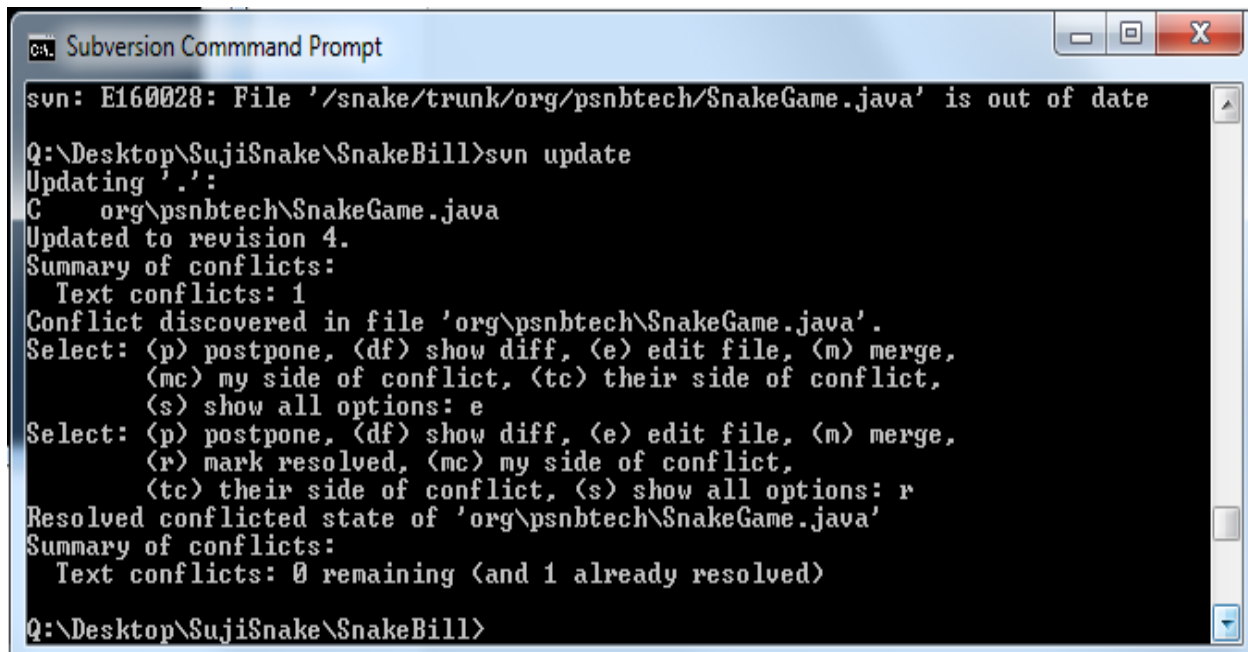
Q:\Desktop\SujiSnake\SnakeBen>cd ../SnakeBill
Q:\Desktop\SujiSnake\SnakeBill>svn commit

Log message unchanged or not specified
<a>abort, <c>ontinue, <e>dit:
c
Sending          org\psnbtech\SnakeGame.java
svn: E155011: Commit failed (details follow):
svn: E155011: File 'Q:\Desktop\SujiSnake\SnakeBill\org\psnbtech\SnakeGame.java'
is out of date
svn: E160028: File '/snake/trunk/org/psnbtech/SnakeGame.java' is out of date

Q:\Desktop\SujiSnake\SnakeBill>
```

Problems Faced: Conflict error due to out of date.

Solution: Update the working copy and edit and mark as resolved.

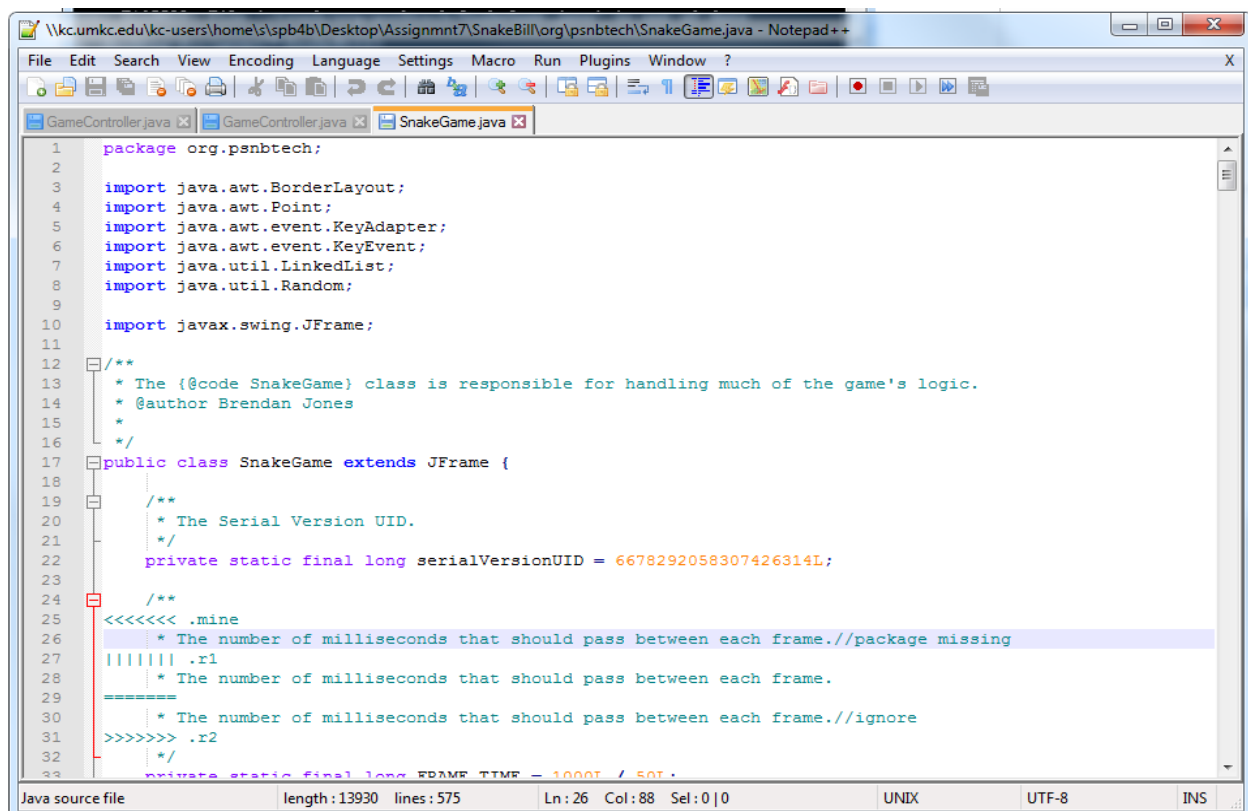


```
C:\> Subversion Command Prompt

svn: E160020: File '/snake/trunk/org/psnbtech/SnakeGame.java' is out of date

Q:\Desktop\SujiSnake\SnakeBill>svn update
Updating '.':
C:\org\psnbtech\SnakeGame.java
Updated to revision 4.
Summary of conflicts:
  Text conflicts: 1
Conflict discovered in file 'org\psnbtech\SnakeGame.java'.
Select: (p) postpone, (df) show diff, (e) edit file, (m) merge,
        (mc) my side of conflict, (tc) their side of conflict,
        (s) show all options: e
Select: (p) postpone, (df) show diff, (e) edit file, (m) merge,
        (r) mark resolved, (mc) my side of conflict,
        (tc) their side of conflict, (s) show all options: r
Resolved conflicted state of 'org\psnbtech\SnakeGame.java'
Summary of conflicts:
  Text conflicts: 0 remaining (and 1 already resolved)

Q:\Desktop\SujiSnake\SnakeBill>
```



```
\\kcumkc.edu\kc-users\home\s\spb4b\Desktop\Assignmnt7\SnakeBill\org\psnbtech\SnakeGame.java - Notepad++
File Edit Search View Encoding Language Settings Macro Run Plugins Window ?
GameController.java GameController.java SnakeGame.java
1 package org.psnbtech;
2
3 import java.awt.BorderLayout;
4 import java.awt.Point;
5 import java.awt.event.KeyAdapter;
6 import java.awt.event.KeyEvent;
7 import java.util.LinkedList;
8 import java.util.Random;
9
10 import javax.swing.JFrame;
11
12 /**
13  * The {@code SnakeGame} class is responsible for handling much of the game's logic.
14  * @author Brendan Jones
15  */
16
17 public class SnakeGame extends JFrame {
18
19     /**
20      * The Serial Version UID.
21      */
22     private static final long serialVersionUID = 6678292058307426314L;
23
24     /**
25     <<<<<< .mine
26     | The number of milliseconds that should pass between each frame.//package missing
27     ||||| .r1
28     | The number of milliseconds that should pass between each frame.
29     =====
30     | The number of milliseconds that should pass between each frame.//ignore
31     >>>>>> .r2
32     */
33     private static final long FRAME_TIME = 1000 / 50;
```

The code in the line 25 is updated with latest Bill code and the Ben update in line 30 is synchronized.

Commit Code and check for version number:

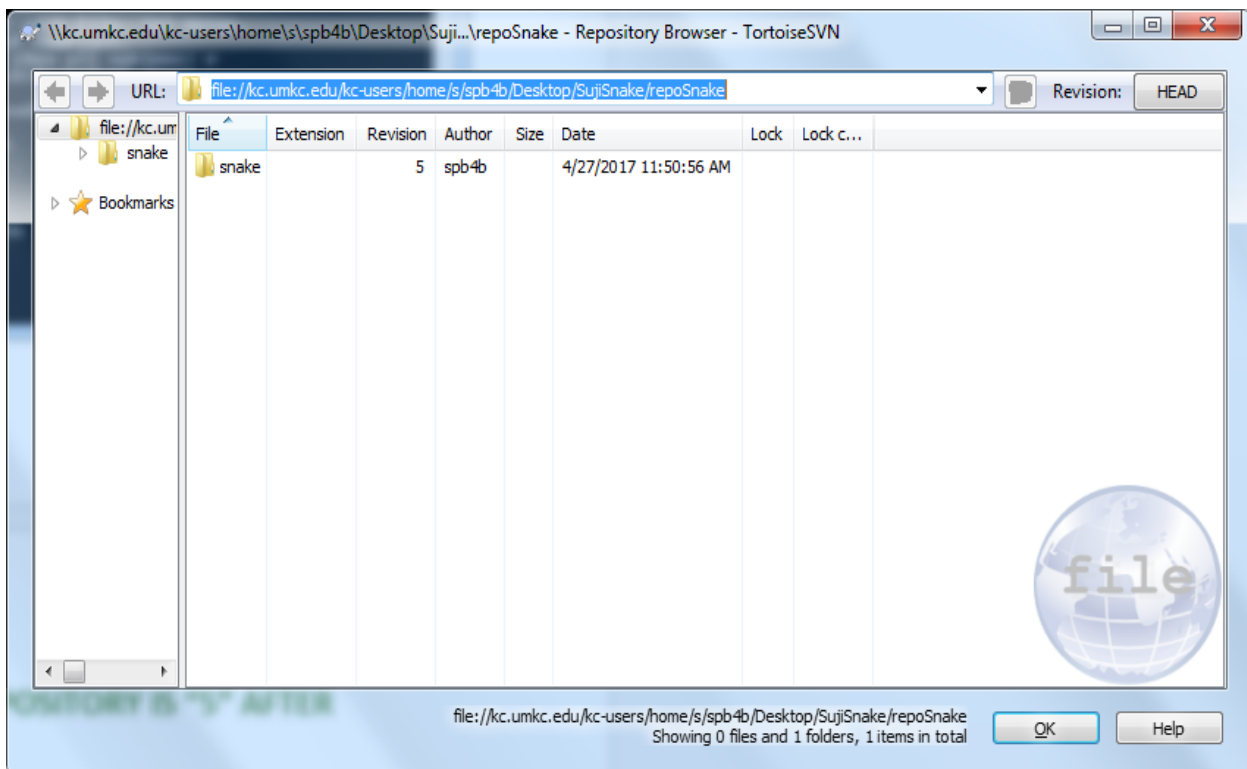
```
Subversion Command Prompt
Text conflicts: 1
Conflict discovered in file 'org\psnbtech\SnakeGame.java'.
Select: (p) postpone, (df) show diff, (e) edit file, (m) merge,
(mc) my side of conflict, (tc) their side of conflict,
(s) show all options: e
Select: (p) postpone, (df) show diff, (e) edit file, (m) merge,
(r) mark resolved, (mc) my side of conflict,
(tc) their side of conflict, (s) show all options: r
Resolved conflicted state of 'org\psnbtech\SnakeGame.java'
Summary of conflicts:
Text conflicts: 0 remaining (and 1 already resolved)

Q:\Desktop\SujiSnake\SnakeBill>svn commit

Log message unchanged or not specified
(a)bort, (c)ontinue, (e)dit:
c
Sending          org\psnbtech\SnakeGame.java
Transmitting file data .done
Committing transaction...
Committed revision 5.

Q:\Desktop\SujiSnake\SnakeBill>
```

THE REVISION NUMBER OF REPOSITORY IS “5” AFTER COMMIT.



```
Subversion Command Prompt
Q:\Desktop\SujiSnake\SnakeBill>svn status -v
      4      4 spb4b      .
      4      4 spb4b      org
      4      4 spb4b      org\psnbtech
      4      3 spb4b      org\psnbtech\BoardPanel.java
      4      3 spb4b      org\psnbtech\Clock.java
      4      3 spb4b      org\psnbtech\Direction.java
      4      3 spb4b      org\psnbtech\SidePanel.java
      5      5 spb4b      org\psnbtech\SnakeGame.java
?      4      3 spb4b      org\psnbtech\SnakeGame.java.edited
      4      3 spb4b      org\psnbtech\TileType.java

Q:\Desktop\SujiSnake\SnakeBill>cd ../SnakeMary

Q:\Desktop\SujiSnake\SnakeMary>svn status -v
      4      4 spb4b      .
      4      4 spb4b      org
      4      4 spb4b      org\psnbtech
      4      3 spb4b      org\psnbtech\BoardPanel.java
      4      3 spb4b      org\psnbtech\Clock.java
      4      3 spb4b      org\psnbtech\Direction.java
      4      3 spb4b      org\psnbtech\SidePanel.java
      4      4 spb4b      org\psnbtech\SnakeGame.java
      4      3 spb4b      org\psnbtech\TileType.java

Q:\Desktop\SujiSnake\SnakeMary>cd ../SnakeBen

Q:\Desktop\SujiSnake\SnakeBen>svn status -v
      3      3 spb4b      .
      3      3 spb4b      org
      3      3 spb4b      org\psnbtech
      3      3 spb4b      org\psnbtech\BoardPanel.java
      3      3 spb4b      org\psnbtech\Clock.java
      3      3 spb4b      org\psnbtech\Direction.java
      3      3 spb4b      org\psnbtech\SidePanel.java
      4      4 spb4b      org\psnbtech\SnakeGame.java
      3      3 spb4b      org\psnbtech\TileType.java

Q:\Desktop\SujiSnake\SnakeBen>
```

Revision Numbers of SnakeGame.java:

Event	Repository	Bill	Mary	Ben
3	5	5	4	4

Description: Ben tried to commit his code without taking an update then an error has occurred, so he should take an update and edit the code and mark as resolved before committing his latest code. The error occurred so the previous modification by others is not deleted.

EVENT #4:

Bill changed the file, Clock.java (e.g. removed the fifth line of code). He then committed his change to the repository.

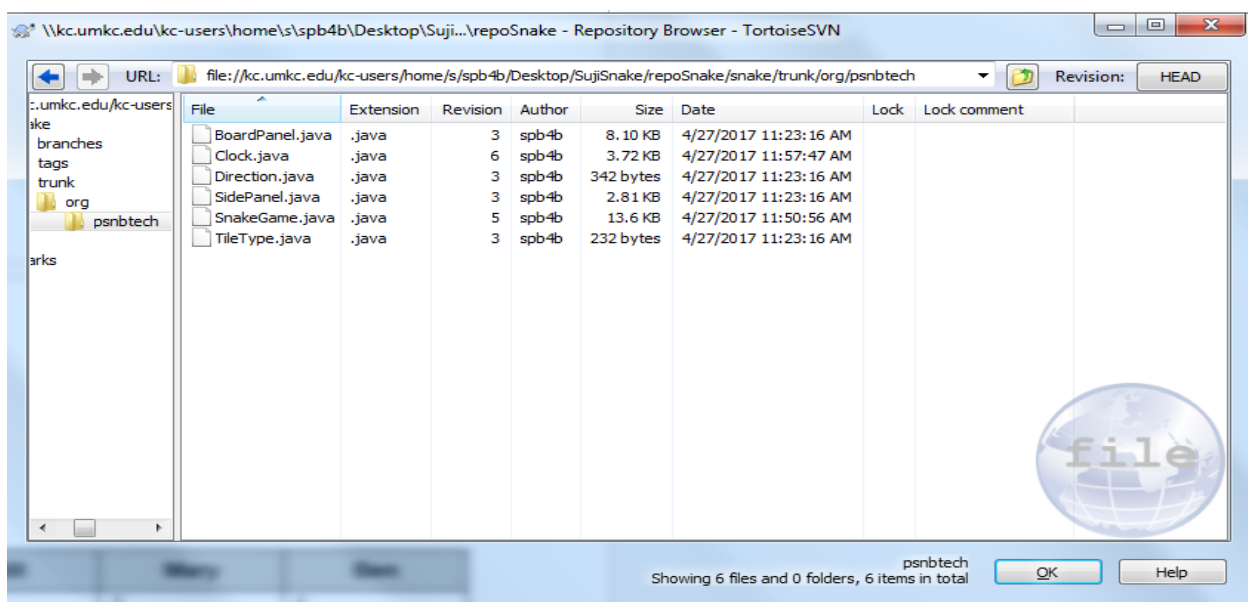
Bill removed line 5 of Clock.java and commit.

```
Subversion Command Prompt
Q:\Desktop\SujiSnake\SnakeMary>svn status -v
      4      4 spb4b      -
      4      4 spb4b      org
      4      4 spb4b      org\psnbtech
      4      3 spb4b      org\psnbtech\BoardPanel.java
      4      3 spb4b      org\psnbtech\Clock.java
      4      3 spb4b      org\psnbtech\Direction.java
      4      3 spb4b      org\psnbtech\SidePanel.java
      4      4 spb4b      org\psnbtech\SnakeGame.java
      4      3 spb4b      org\psnbtech\TileType.java

Q:\Desktop\SujiSnake\SnakeMary>cd ../SnakeBen
Q:\Desktop\SujiSnake\SnakeBen>svn status -v
      3      3 spb4b      -
      3      3 spb4b      org
      3      3 spb4b      org\psnbtech
      3      3 spb4b      org\psnbtech\BoardPanel.java
      3      3 spb4b      org\psnbtech\Clock.java
      3      3 spb4b      org\psnbtech\Direction.java
      3      3 spb4b      org\psnbtech\SidePanel.java
      4      4 spb4b      org\psnbtech\SnakeGame.java
      3      3 spb4b      org\psnbtech\TileType.java

Q:\Desktop\SujiSnake\SnakeBen>cd ../SnakeBill
Q:\Desktop\SujiSnake\SnakeBill>svn commit
Q:\Desktop\SujiSnake\SnakeBill>svn commit
Log message unchanged or not specified
(a)bort, (c)ontinue, (e)dit:
c
Sending      org\psnbtech\Clock.java
Transmitting file data .done
Committing transaction...
Committed revision 6.
Q:\Desktop\SujiSnake\SnakeBill>
```

THE REVISION NUMBER OF REPOSITORY IS “6”



```

Subversion Command Prompt

      4      4 spb4b      org\psnbtech\SnakeGame.java
      3      3 spb4b      org\psnbtech\TileType.java

Q:\Desktop\SujiSnake\SnakeBen>cd ../SnakeBill
Q:\Desktop\SujiSnake\SnakeBill>svn commit
Q:\Desktop\SujiSnake\SnakeBill>svn commit
Log message unchanged or not specified
<a>abort, <c>ontinue, <e>dit:
c
Sending      org\psnbtech\Clock.java
Transmitting file data .done
Committing transaction...
Committed revision 6.

Q:\Desktop\SujiSnake\SnakeBill>cd ../SnakeBen
Q:\Desktop\SujiSnake\SnakeBen>svn status -v
      3      3 spb4b      .
      3      3 spb4b      org
      3      3 spb4b      org\psnbtech
      3      3 spb4b      org\psnbtech\BoardPanel.java
      3      3 spb4b      org\psnbtech\Clock.java
      3      3 spb4b      org\psnbtech\Direction.java
      3      3 spb4b      org\psnbtech\SidePanel.java
      4      4 spb4b      org\psnbtech\SnakeGame.java
      3      3 spb4b      org\psnbtech\TileType.java

Q:\Desktop\SujiSnake\SnakeBen>cd ../SnakeMary
Q:\Desktop\SujiSnake\SnakeMary>svn status -v
      4      4 spb4b      .
      4      4 spb4b      org
      4      4 spb4b      org\psnbtech
      4      3 spb4b      org\psnbtech\BoardPanel.java
      4      3 spb4b      org\psnbtech\Clock.java
      4      3 spb4b      org\psnbtech\Direction.java
      4      3 spb4b      org\psnbtech\SidePanel.java
      4      4 spb4b      org\psnbtech\SnakeGame.java
      4      3 spb4b      org\psnbtech\TileType.java

Q:\Desktop\SujiSnake\SnakeMary>

```

Problems Faced: None

Revision Numbers of SnakeGame.java:

Event	Repository	Bill	Mary	Ben
4	5	5	4	4

Revision Numbers of Clock.java:

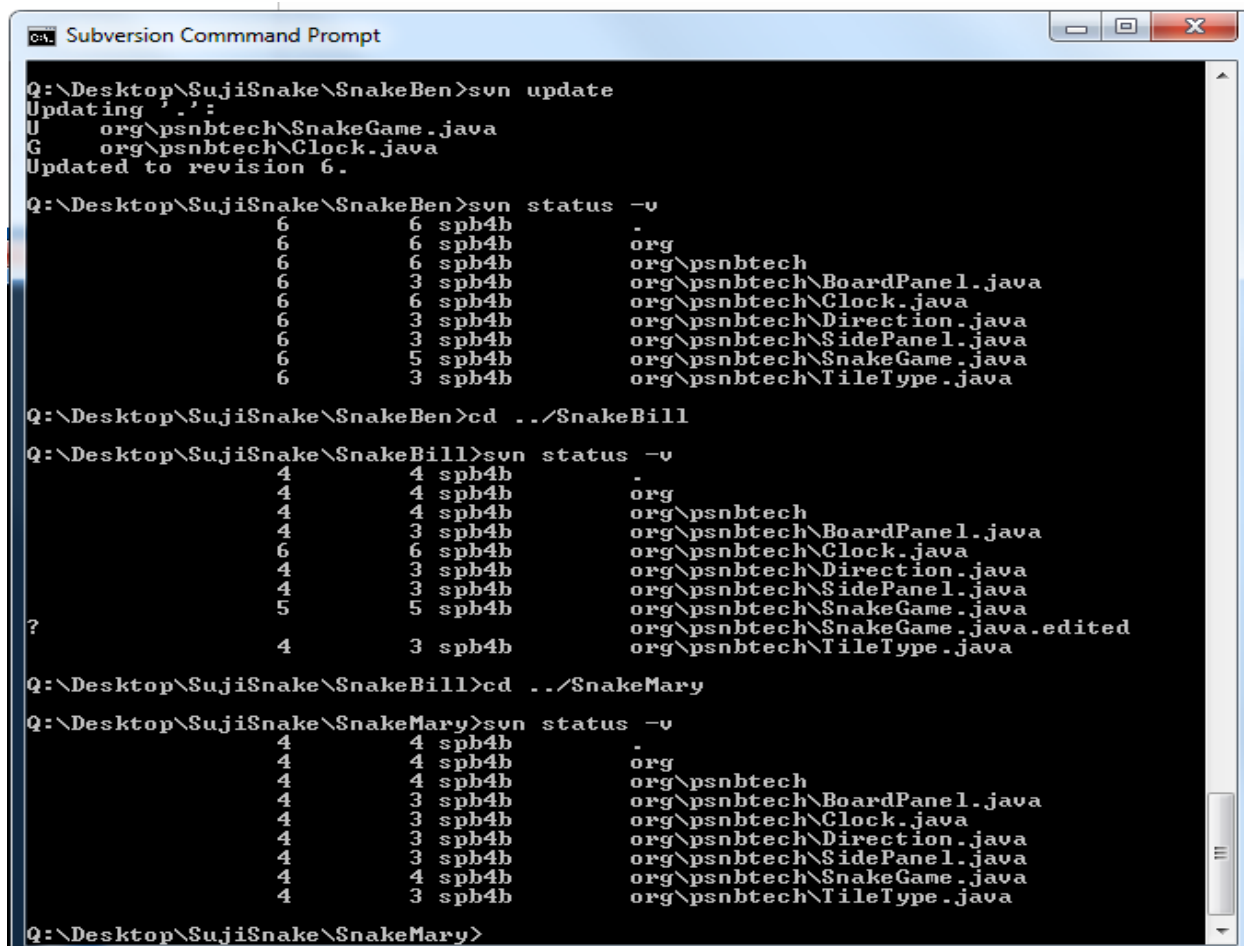
Event	Repository	Bill	Mary	Ben
4	6	6	3	3

Description: Bill modified the Clock.java code so the revision number is incremented for repository and Bill working copy. But the SnakeGame.java revision number is not incremented.

EVENT #5:

Ben synchronized his working copy with the repository.

Ben Update his Copy:



```
Q:\Desktop\SujiSnake\SnakeBen>svn update
Updating '.':
U    org\psnbtech\SnakeGame.java
G    org\psnbtech\Clock.java
Updated to revision 6.

Q:\Desktop\SujiSnake\SnakeBen>svn status -v
      6      6 spb4b      -
      6      6 spb4b      org
      6      6 spb4b      org\psnbtech
      6      3 spb4b      org\psnbtech\BoardPanel.java
      6      6 spb4b      org\psnbtech\Clock.java
      6      3 spb4b      org\psnbtech\Direction.java
      6      3 spb4b      org\psnbtech\SidePanel.java
      6      5 spb4b      org\psnbtech\SnakeGame.java
      6      3 spb4b      org\psnbtech\TileType.java

Q:\Desktop\SujiSnake\SnakeBen>cd ../SnakeBill
Q:\Desktop\SujiSnake\SnakeBill>svn status -v
      4      4 spb4b      -
      4      4 spb4b      org
      4      4 spb4b      org\psnbtech
      4      3 spb4b      org\psnbtech\BoardPanel.java
      6      6 spb4b      org\psnbtech\Clock.java
      4      3 spb4b      org\psnbtech\Direction.java
      4      3 spb4b      org\psnbtech\SidePanel.java
      5      5 spb4b      org\psnbtech\SnakeGame.java
?      4      3 spb4b      org\psnbtech\SnakeGame.java.edited
                        org\psnbtech\TileType.java

Q:\Desktop\SujiSnake\SnakeBill>cd ../SnakeMary
Q:\Desktop\SujiSnake\SnakeMary>svn status -v
      4      4 spb4b      -
      4      4 spb4b      org
      4      4 spb4b      org\psnbtech
      4      3 spb4b      org\psnbtech\BoardPanel.java
      4      3 spb4b      org\psnbtech\Clock.java
      4      3 spb4b      org\psnbtech\Direction.java
      4      3 spb4b      org\psnbtech\SidePanel.java
      4      4 spb4b      org\psnbtech\SnakeGame.java
      4      3 spb4b      org\psnbtech\TileType.java

Q:\Desktop\SujiSnake\SnakeMary>
```

Problems Faced: None

Revision Numbers of SnakeGame.java:

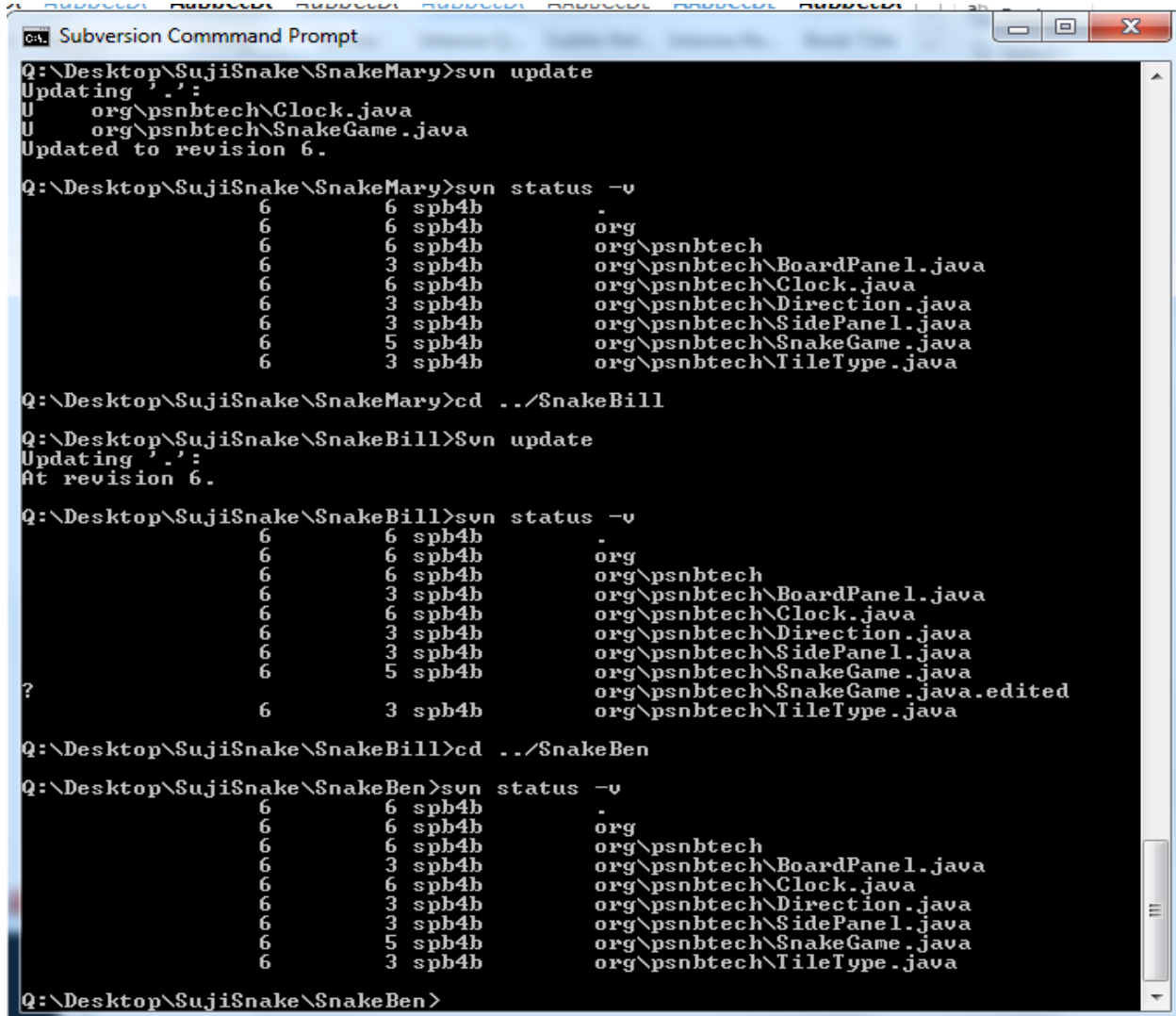
Event	Repository	Bill	Mary	Ben
5	5	5	4	5

Description: Ben working copy is synchronized with revision number of repository.

EVENT #6:

Mary and Bill both synchronized their working copies with the repository.

Mary and Bill Update their Copy:



```
Q:\Desktop\SujiSnake\SnakeMary>svn update
Updating '.':
U    org\psnbtech\Clock.java
U    org\psnbtech\SnakeGame.java
Updated to revision 6.

Q:\Desktop\SujiSnake\SnakeMary>svn status -v
      6      6 spb4b      -
      6      6 spb4b      org
      6      6 spb4b      org\psnbtech
      6      3 spb4b      org\psnbtech\BoardPanel.java
      6      6 spb4b      org\psnbtech\Clock.java
      6      3 spb4b      org\psnbtech\Direction.java
      6      3 spb4b      org\psnbtech\SidePanel.java
      6      5 spb4b      org\psnbtech\SnakeGame.java
      6      3 spb4b      org\psnbtech\TileType.java

Q:\Desktop\SujiSnake\SnakeMary>cd ../SnakeBill

Q:\Desktop\SujiSnake\SnakeBill>svn update
Updating '.':
At revision 6.

Q:\Desktop\SujiSnake\SnakeBill>svn status -v
      6      6 spb4b      -
      6      6 spb4b      org
      6      6 spb4b      org\psnbtech
      6      3 spb4b      org\psnbtech\BoardPanel.java
      6      6 spb4b      org\psnbtech\Clock.java
      6      3 spb4b      org\psnbtech\Direction.java
      6      3 spb4b      org\psnbtech\SidePanel.java
      6      5 spb4b      org\psnbtech\SnakeGame.java
      ?      6      3 spb4b      org\psnbtech\SnakeGame.java.edited
      6      3 spb4b      org\psnbtech\TileType.java

Q:\Desktop\SujiSnake\SnakeBill>cd ../SnakeBen

Q:\Desktop\SujiSnake\SnakeBen>svn status -v
      6      6 spb4b      -
      6      6 spb4b      org
      6      6 spb4b      org\psnbtech
      6      3 spb4b      org\psnbtech\BoardPanel.java
      6      6 spb4b      org\psnbtech\Clock.java
      6      3 spb4b      org\psnbtech\Direction.java
      6      3 spb4b      org\psnbtech\SidePanel.java
      6      5 spb4b      org\psnbtech\SnakeGame.java
      6      3 spb4b      org\psnbtech\TileType.java

Q:\Desktop\SujiSnake\SnakeBen>
```

Problems Faced: None

Revision Numbers of SnakeGame.java:

Event	Repository	Bill	Mary	Ben
6	5	5	5	5

Description: Bill and Mary have the latest copy of project after the update.

COMANDS USED:

Command	Use
set SVN_EDITOR=C:\Windows\System32\notepad.exe	To use the notepad as editing source
svn admin create Q:/Desktop/repo	To create the central repository
svn import Q:/Desktop/Snake file:///Desktop/repo/Snake	To import project into central repository
svn mkdir directoryname	To create a directory (in the specified folder use cd... /Snake)
svn checkout <u>file:///Desktop/repos/snake/trunk</u> Q:/Desktop/SnakeBill	To checkout
svn status -v	To check for status
svn commit	To commit code to repos
svn update	To update the code to the revision number of repos.

Observation Notes:

1. Its good practice to take an update before modifying the code.
2. When an old version working copy is modified and committed then it throws an error.
3. A new edited copy is created when merging with an new version copy.
4. Only the version number of the updated file is incremented and for other code it's not incremented.