

Software Methods and Tools

Spring 2016

Assignment 7

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- 1) Below is the screenshot showing contents of Tetris project which I have created under my repository MyRepo.

```
C:\A7\TetrisJack>svn list -v file:///C:/A7/MyRepo/Tetris
      2 Admin          May 02 23:18 ./
      2 Admin          May 02 23:18 branches/
      2 Admin          May 02 23:18 tags/
      2 Admin          May 02 23:18 trunk/

C:\A7\TetrisJack>
```

- 2) Below is the screenshot showing source code in repository. I have kept the original file structure i.e. org/psnbttech. Created these directories under trunk as stated in the assignment.

```
C:\A7\TetrisJack>svn list -v file:///C:/A7/MyRepo/Tetris/trunk/org/psnbttech
      2 Admin          May 02 23:18 ./
      2 Admin      12449 May 02 23:18 BoardPanel.java
      2 Admin      3845 May 02 23:18 Clock.java
      2 Admin      6367 May 02 23:18 SidePanel.java
      2 Admin     14160 May 02 23:18 Tetris.java
      2 Admin      8717 May 02 23:18 TileType.java
```

Event#1: Below table shows the revision history of Tetris.java.

Event	Repository	Bill	Mary	Jack
-------	------------	------	------	------

1	3	3	2	2
---	---	---	---	---

Description: Bill did changes in Tetris.java(on row 26 and 31) of his working copy and committed his changes to the repository. Therefore revision history of Bill's working copy and repository changed to 3.

Below screenshot shows the revision history of Mary's working copy. Her working copy's revision history is still 2 as she did not perform any changes.

```
C:\A7\TetrisMary\Tetris>svn status -u
      2      2 Admin      .
      2      2 Admin      branches
      2      2 Admin      tags
      2      2 Admin      trunk
      2      2 Admin      trunk\org
      2      2 Admin      trunk\org\psnbtech
      2      2 Admin      trunk\org\psnbtech\BoardPanel.java
      2      2 Admin      trunk\org\psnbtech\Clock.java
      2      2 Admin      trunk\org\psnbtech\SidePanel.java
      2      2 Admin      trunk\org\psnbtech\Tetris.java
      2      2 Admin      trunk\org\psnbtech\TileType.java
```

Event#2: Below table shows the revision history of Tetris.java.

Event	Repository	Bill	Mary	Jack
2	3	3	3	2

Description: Mary performed update command to synchronize her working copy with repository.

Below is the screenshot showing current version of Mary's working copy, its 3

.

```

C:\A7\TetrisMary\Tetris>svn status -v
      3      3 Admin      .
      3      2 Admin      branches
      3      2 Admin      tags
      3      3 Admin      trunk
      3      3 Admin      trunk\org
      3      3 Admin      trunk\org\psnbtech
      3      2 Admin      trunk\org\psnbtech\BoardPanel.java
      3      2 Admin      trunk\org\psnbtech\Clock.java
      3      2 Admin      trunk\org\psnbtech\SidePanel.java
      3      3 Admin      trunk\org\psnbtech\Tetris.java
      3      2 Admin      trunk\org\psnbtech\TileType.java

```

Event#3: Below table shows the revision history of Tetris.java.

Event	Repository	Bill	Mary	Jack
3	4	3	3	4

```

C:\A7\TetrisJack\trunk>svn update
Updating '.':
C      org\psnbtech\Tetris.java
Updated to revision 3.
Conflict discovered in file 'org\psnbtech\Tetris.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\Tetris.java'
Summary of conflicts:
  Text conflicts: 0 remaining (and 1 already resolved)

```

Description: As per event 3 Jack did changes to Tetris.java at same row(row 26) where Bill did his changes and tried to commit but could not commit it due to conflicts.

Jack did a svn update to synchronize his working copy with the repository and conflicts were reported. By selecting the edit command “e”, Tetris.java files was edited manually by Jack and after that selecting resolve “r” conflicts were resolved. Revision history of Jack is 3 now.

Above is the screenshot for the steps that I followed.

Below is the screenshot showing current version of Mary's working copy, its 3.

```
C:\A7\TetrisMary\Tetris>svn status -u
      3      3 Admin      .
      3      2 Admin      branches
      3      2 Admin      tags
      3      3 Admin      trunk
      3      3 Admin      trunk\org
      3      3 Admin      trunk\org\psnbtech
      3      2 Admin      trunk\org\psnbtech\BoardPanel.java
      3      2 Admin      trunk\org\psnbtech\Clock.java
      3      2 Admin      trunk\org\psnbtech\SidePanel.java
      3      3 Admin      trunk\org\psnbtech\Tetris.java
      3      2 Admin      trunk\org\psnbtech\TileType.java
```

Event#4: Below table shows the revision history of Tetris.java.

Event	Repository	Bill	Mary	Jack
4	4	3	3	4

Description: Jack did changes to Clock.java file and committed his changes to repo using commit command. Jack's working copy revision number and repo's revision number changed to 4. (Revision number of Tetris.java remains 3 for Jack and revision of other individual java files where no change is done remains 1.)

Below is the screenshot showing current version of Mary's working copy, its 3.

```
C:\A7\TetrisMary\Tetris>svn status -u
      3      3 Admin      .
      3      2 Admin      branches
      3      2 Admin      tags
      3      3 Admin      trunk
      3      3 Admin      trunk\org
      3      3 Admin      trunk\org\psnbtech
      3      2 Admin      trunk\org\psnbtech\BoardPanel.java
      3      2 Admin      trunk\org\psnbtech\Clock.java
      3      2 Admin      trunk\org\psnbtech\SidePanel.java
      3      3 Admin      trunk\org\psnbtech\Tetris.java
      3      2 Admin      trunk\org\psnbtech\TileType.java
```

Event#5: Below table shows the revision history of Tetris.java.

Event	Repository	Bill	Mary	Jack
5	4	3	3	4

Description: Jack synchronized his working copy with repository using update command and now revision number of his working copy is 5.

Below is the screenshot showing current version of Mary's working copy, its 3.

```
C:\A7\TetrisMary\Tetris>svn status -u
      3      3 Admin      .
      3      2 Admin      branches
      3      2 Admin      tags
      3      3 Admin      trunk
      3      3 Admin      trunk\org
      3      3 Admin      trunk\org\psnbtech
      3      2 Admin      trunk\org\psnbtech\BoardPanel.java
      3      2 Admin      trunk\org\psnbtech\Clock.java
      3      2 Admin      trunk\org\psnbtech\SidePanel.java
      3      3 Admin      trunk\org\psnbtech\Tetris.java
      3      2 Admin      trunk\org\psnbtech\TileType.java
```

Event#6: Below table shows the revision history of Tetris.java.

Event	Repository	Bill	Mary	Jack
6	4	4	4	4

Description: Mary and Bill synchronized their working copy with repository using update command and revision number of their working copy is 4 same as repository's revision number.

Below is the screenshot showing current version of Mary's working copy, its 5. Revision number of Tetris.java is 4.

```
C:\A7\TetrisMary\Tetris>svn status -u
      5          5 Admin      .
      5          2 Admin      branches
      5          2 Admin      tags
      5          5 Admin      trunk
      5          5 Admin      trunk\org
      5          5 Admin      trunk\org\psnbtech
      5          2 Admin      trunk\org\psnbtech\BoardPanel.java
      5          5 Admin      trunk\org\psnbtech\Clock.java
      5          2 Admin      trunk\org\psnbtech\SidePanel.java
      5          4 Admin      trunk\org\psnbtech\Tetris.java
      5          2 Admin      trunk\org\psnbtech\TileType.java
```