Module 3: Git, Jenkins and Maven Integration

Demo Document – 2

edureka!

Demo – 2: Merge Conflict

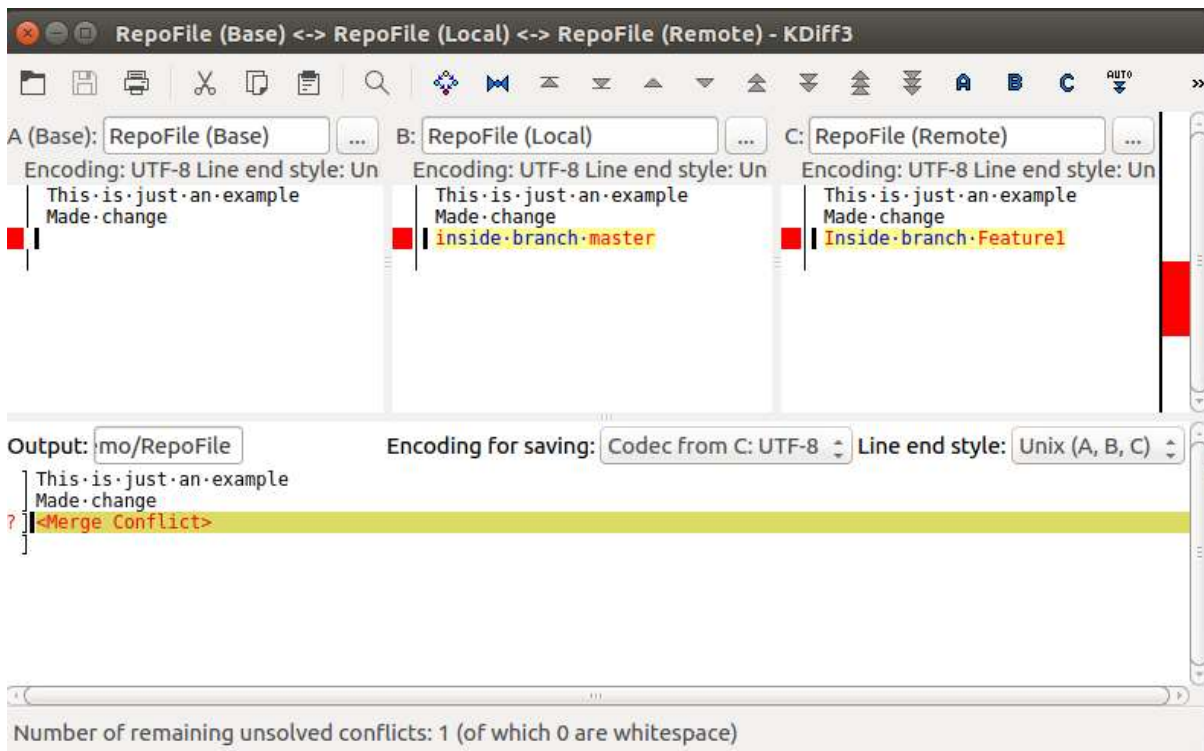- Merge Conflict arises on merging branches

```
amrinderjeet@amrinderjeet-VirtualBox:~/Documents/demo$ git merge feature1
Auto-merging RepoFile
CONFLICT (content): Merge conflict in RepoFile
Automatic merge failed; fix conflicts and then commit the result.
amrinderjeet@amrinderjeet-VirtualBox:~/Documents/demo$
```
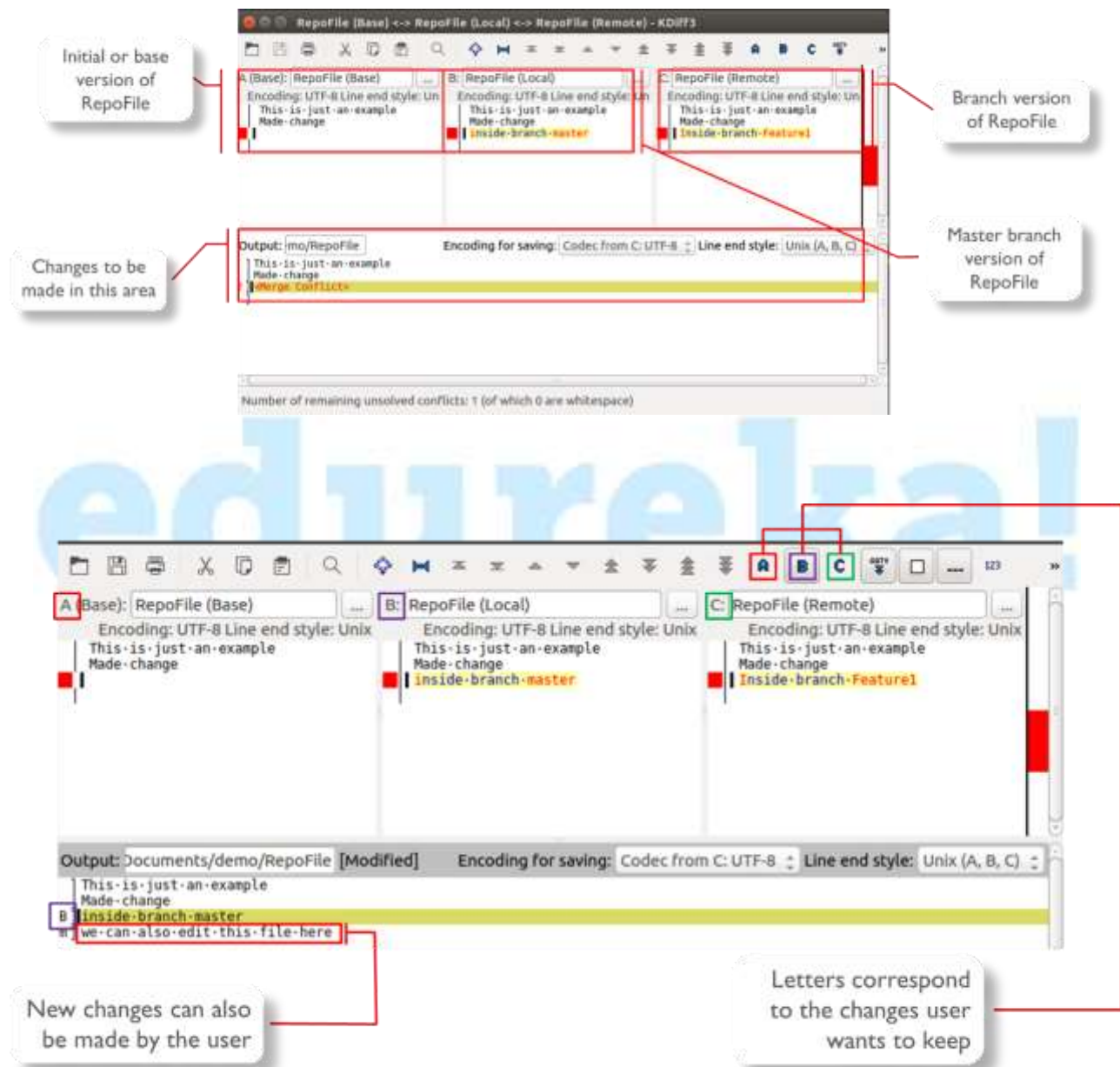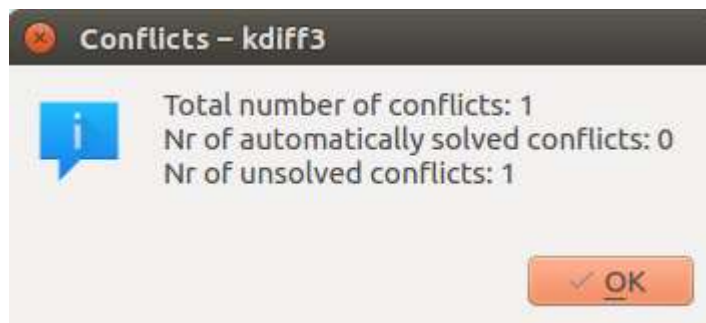
- Set a default merge tool before resolving conflict
  Syntax: git config --global merge.tool <toolname>

```
amrinderjeet@amrinderjeet-VirtualBox:~/Documents/demo$ git config --global merge.tool kdiff3
amrinderjeet@amrinderjeet-VirtualBox:~/Documents/demo$
```

- Merge-tool automatically detects the conflicts and displays them
  Syntax: git mergetool

```
amrinderjeet@amrinderjeet-VirtualBox:~/Documents/demo$ git mergetool
```

RepoFile (Base) <-> RepoFile (Local) <-> RepoFile (Remote) - KDiff3

A (Base): RepoFile (Base) ...   B: RepoFile (Local) ...   C: RepoFile (Remote) ...
Encoding: UTF-8 Line end style: Un   Encoding: UTF-8 Line end style: Un   Encoding: UTF-8 Line end style: Un

This·is·just·an·example   This·is·just·an·example   This·is·just·an·example
Made·change   Made·change   Made·change
                                 inside·branch·master   Inside·branch·Feature1

Output: mo/RepoFile   Encoding for saving: Codec from C: UTF-8 ◆ Line end style: Unix (A, B, C) ◆

This·is·just·an·example
Made·change
? <Merge Conflict>

Number of remaining unsolved conflicts: 1 (of which 0 are whitespace)

- Commit the resolved changes

- Merge the branch again

```
amrinderjeet@amrinderjeet-VirtualBox:~/Documents/demo$ git commit -a -m 'resolved merge conflict'
[master b166145] resolved merge conflict
amrinderjeet@amrinderjeet-VirtualBox:~/Documents/demo$ git merge feature1
Already up-to-date.
amrinderjeet@amrinderjeet-VirtualBox:~/Documents/demo$ git branch --merged
  feature1
* master
  merge
amrinderjeet@amrinderjeet-VirtualBox:~/Documents/demo$
```