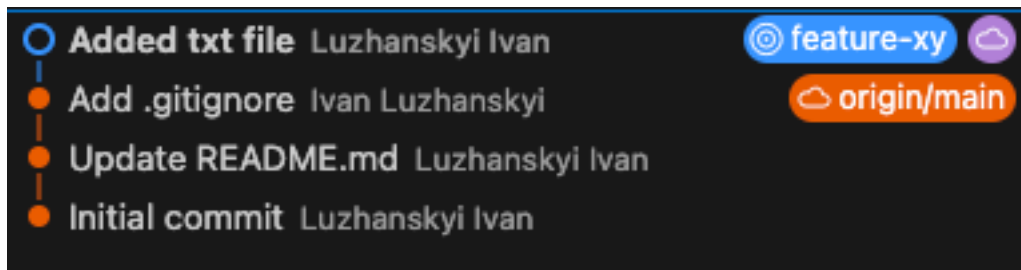


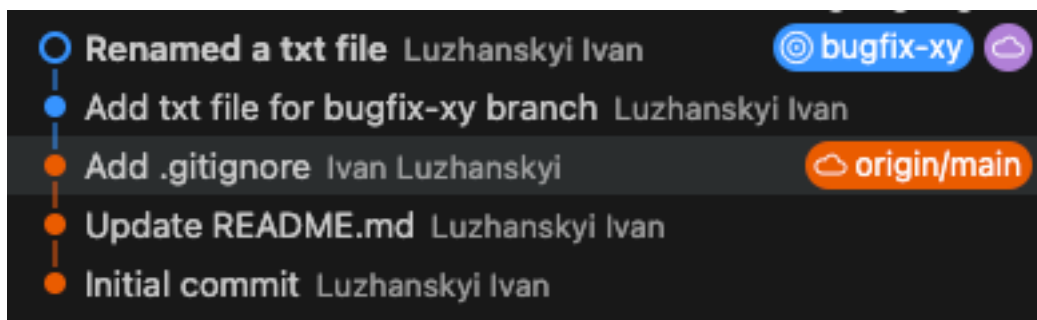
Task 1.

Task 2.

- feature-xy branch with txt file containing unique content



- bugfix-xy branch with txt file containing unique content



Task 3.

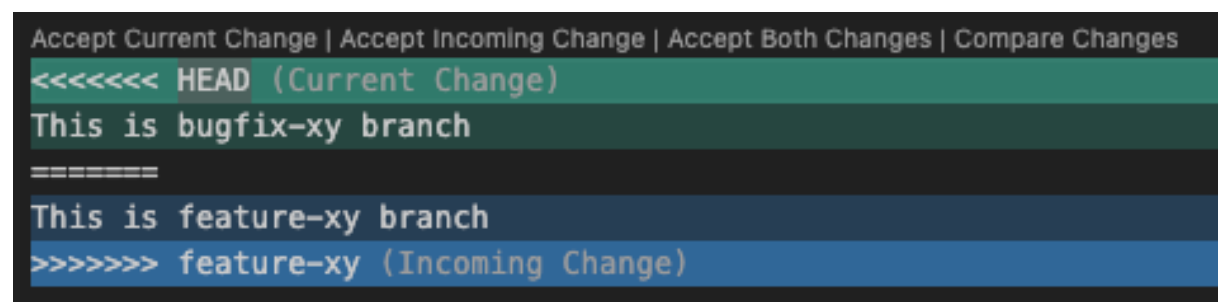
Cause of the Merge Conflict

A merge conflict occurs when Git is unable to automatically combine changes from two branches due to conflicting modifications to the same lines of a file. In this scenario:

- The feature-xy branch modified text.txt with specific changes.
- The bugfix-xy branch made different, conflicting changes to the same lines in text.txt.
- When attempting to merge bugfix-xy into feature-xy, Git could not decide which version of the changes to keep.

Steps Taken to Resolve the Conflict

- Opened the conflicted file (text.txt) in a text editor.
- Edited the file to resolve the conflict by combining the changes into a meaningful final version.

A screenshot of a text editor showing a Git merge conflict resolution interface. At the top, there is a menu bar with four options: "Accept Current Change", "Accept Incoming Change", "Accept Both Changes", and "Compare Changes". Below the menu, the text is organized into three distinct horizontal sections. The first section, highlighted in a teal color, is preceded by six less-than signs and contains the text "HEAD (Current Change)" followed by "This is bugfix-xy branch". The second section, highlighted in a dark blue color, is preceded by six equals signs and contains the text "This is feature-xy branch". The third section, highlighted in a medium blue color, is preceded by six greater-than signs and contains the text "feature-xy (Incoming Change)".

```
Accept Current Change | Accept Incoming Change | Accept Both Changes | Compare Changes
<<<<<< HEAD (Current Change)
This is bugfix-xy branch
=====
This is feature-xy branch
>>>>>> feature-xy (Incoming Change)
```

