8. Advanced Git Operations:

❖ Write the command to cherry-pick a range of commits from "source-branch" to the current branch.
❖ Create a branch named source branch and check out to the source branch.
❖ And make the first some change in thefile.txt file.
❖ Stage and commit the changes with commit message saying "first commit in the source branch.
❖ Again make some changes in the file or add few more line in the file.txt file.
❖ Stage and commit the changes with message saying "SB edited"
❖ Here we want copy the commit ID to cherry-pick the specific state from the git log
❖ Now move to the master branch.
❖ Git cherry-pick <commit ID> -> this will take the mentioned commit ID stage and merge to the master branch.
❖ Main advantage of using cherry pick is we can pick the required snapshot from the branches and add to the master branch.
❖ Here we can see the content of the file.txt file at that snapshot is added to the master.

```
vtu@vtu-Vostro-3888:~/Akshata$ git branch source-branch3
vtu@vtu-Vostro-3888:~/Akshata$ git checkout source-branch3
file.txt: needs merge
error: you need to resolve your current index first
vtu@vtu-Vostro-3888:~/Akshata$ vim file.txt
vtu@vtu-Vostro-3888:~/Akshata$ git add file.txt
vtu@vtu-Vostro-3888:~/Akshata$ git commit -m"file created"
[source-branch c262ab2] file created
 1 file changed, 2 insertions(+)
vtu@vtu-Vostro-3888:~/Akshata$ vim file.txt
vtu@vtu-Vostro-3888:~/Akshata$ git add file.txt
vtu@vtu-Vostro-3888:~/Akshata$ git commit -m"SB edited"
On branch source-branch
Untracked files:
        10
        11
        6
        7a
        8
        9
        lab 7

nothing added to commit but untracked files present
vtu@vtu-Vostro-3888:~/Akshata$ git log
commit c262ab22d40cffdb31d9b3ed51816ba59553df14 (HEAD -> source-branch)
Author: Akshata <nnn@gmail.com>
Date:   Sat Nov 30 14:54:51 2024 +0530

    file created
```

```
commit 52a6bd05cc126fcff27fc9f5fb9f79c7781a82e1 (source-branch3, source-branch2, source-branch1)
Author: Akshata <nnn@gmail.com>
Date:   Sat Nov 30 14:35:20 2024 +0530

    SB edited

commit 0e05c9f3d0451700e2f018f67cd63c40db830a64
Author: Akshata <nnn@gmail.com>
Date:   Sat Nov 30 14:34:23 2024 +0530

    file created

commit 8a3df7e45fc76ea35064120ad4a5885a137ebd48 (tag: v1.0, master, feature-branch)
Author: Akshata <nnn@gmail.com>
Date:   Sat Nov 30 14:15:28 2024 +0530

    1st line of FB(V1)

commit 4b73e4e26ded3fa86b630dfb53cfedf5a45cbd36 (tag: v1.1)
Author: Akshata <nnn@gmail.com>
Date:   Sat Nov 30 14:08:10 2024 +0530

    added a file
vtu@vtu-Vostro-3888:~/Akshata$ git checkout master
Switched to branch 'master'
vtu@vtu-Vostro-3888:~/Akshata$ git cherry-pick 0e05c9f3d0451700e2f018f67cd63c40db830a64
[master 2d00f87] file created
 Date: Sat Nov 30 14:34:23 2024 +0530
 1 file changed, 11 insertions(+), 1 deletion(-)
```