Task 1:

1. **Clone remote repository using SSH keys:**

1. git config --global user.name "Artsiom\_Mialeshka"
2. git config --global user.email "artsiom\_mialeshka@epam.com"
3. ssh-keygen -t rsa -C “[Artsiom\_mialeshka@epam.com](mailto:Artsiom_mialeshka@epam.com)”
4. git clone SSH

2. **Create 3 commits in “master” branch:**

1. git add Readme
2. git commit –m “Added new file readme”
3. git add Readme1
4. git commit –m “Added new file readme\_1”
5. git add Readme2
6. git commit –m “Added new file readme\_2”
7. git push

**or**

1. git add .
2. git commit –m “Added new files readme, readme\_1, readme\_2”
3. git push

3. **Create new “develop” branch and push 2 commits to it (w/o any conflicts):**

1. git checkout –b develop
2. git push --set-upstream origin develop
3. git add Readme\_Develop
4. git commit –m “Added new file in develop brunch”
5. git add Readme\_Develop1
6. git commit –m “Added new file1 in develop brunch”
7. git push

4. **Merge “develop” branch to “master” branch:**

1) git checkout master

2) git merge develop

3) git commit -m "Merge from develop branch"

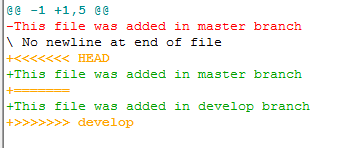
4) git push

Advanced Task2:

1. **Add 1 additional commits to "develop" branch, and 2 additional commit to “master”. Rebase "develop" with new commits from "master";**
2. git checkout master
3. git add Rebase\_master1
4. git commit –m “1st file for rebase task master branch”
5. git add Rebase\_master2
6. git commit –m “2nd file for rebase task master branch”
7. git push
8. git checkout develop
9. git add Rebase\_Develop1
10. git commit –m “1st file for rebase task in develop branch”
11. git rebase master
12. git push
13. **Add 2 additional commits to “develop” branch. Cherry-pick the first commit to “master”. Revert the second commit;**
14. git checkout develop
15. git add [Cherry-pick\_file1](https://git.epam.com/Artsiom_Mialeshka/my-awesome-project/blob/develop/Cherry-pick_file1)
16. git commit –m “[1st file for cherry-pick tasks created in develop branch](https://git.epam.com/Artsiom_Mialeshka/my-awesome-project/commit/73d5f6b33ca800d68605864b95f819beae131d4a)”
17. git add [Cherry-pick\_file2](https://git.epam.com/Artsiom_Mialeshka/my-awesome-project/blob/develop/Cherry-pick_file1)
18. git commit –m “[2st file for cherry-pick tasks created in develop branch](https://git.epam.com/Artsiom_Mialeshka/my-awesome-project/commit/73d5f6b33ca800d68605864b95f819beae131d4a)”
19. git push
20. git log -> find SHA1 for [Cherry-pick\_file1](https://git.epam.com/Artsiom_Mialeshka/my-awesome-project/blob/develop/Cherry-pick_file1)
21. git checkout master
22. git cherry-pick 73d5f6b33ca800d68605864b95f819beae131d4a
23. git push
24. git checkout develop
25. git revert 886a6
26. git push
27. **‘merge conflict’**

*Precondition: Add various changes in the Readme file in develop and master branches*

1. git checkout develop
2. git add Readme
3. git commit –m “Update Readme”
4. git push
5. git checkout master
6. git add Readme
7. git commit –m “Update Readme”
8. git push
9. git merge develop
10. resolve the conflict manually or / git checkout –ours –theirs



1. git push

gitk: