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#!/bin/bash
#/* *********** Cousera/lab rebase.sh ********* */
#/*
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# *
# *
        URL:
               https://training.linuxfoundation.org
# *
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# *
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# * License, which you should have received with the source.
# */
#!/bin/bash
# initialize the repository and put our name and email in the .config file
echo -e "\n\n********
                            CREATING THE REPOSITORY AND CONFIGURING IT\n\n"
rm -rf git-test; mkdir git-test; cd git-test
git init
git config user.name "A Smart Guy"
git config user.email "asmartguy@linux.com"
echo -e "\n\n******** CREATING A COUPLE OF FILES AND ADDING THEM TO THE PROJECT AND
COMMITTING\n\n"
# create a couple of files and add them to the project, and then commit
echo file1 > file1
echo file2 > file2
git add file1 file2
git commit . -m "This is our first commit"
# create a new development branch
echo -e "\n\n********* CREATING A NEW BRANCH, devel ***\n\n"
git branch devel
# checkout the new branch
echo -e "\n\n******** CHECKOUT BRANCH devel ***\n\n"
git checkout devel
# modify a file and add a new one
echo another line >> file1
echo file3 >> file3
git add file1 file3
echo -e "\n\n*******
                             DIFFING\n\n"
git diff
echo -e "\n\n*******
                            RECOMITTING\n\n"
# now get it all in with another commit
git commit . -m "This is a commit in the devel branch"
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2/15/22, 3:49 PM
 # list files
 echo -e "\n\nlist files, then git ls-files\n\n"
 ls -1
 git ls-files
 # now checkout the original branch
 echo -e "\n\n******* LIST BRANCHES AND CHECKOUT main **\n\n"
 git branch
 git checkout main
 # list files
 ls -1
 git ls-files
 echo -e "\n\n********* SHOW THE BRANCH\n\n"
 git branch
 # diff the branches
 echo -e "\n\n********* DIFFING THE BRANCHES ****\n\n"
 git diff main devel
 # get a log of the devel branch
 echo -e "\n\n********* git log on devel branch *** \n\n"
 git checkout devel
 git log
 # make a new change to main branch
 echo -e "\n\n************ Make a new change to main branch and commit\n\n"
 git checkout main
 echo something >> file4
 git add file4
 git commit -m"a new commit to the main branch"
 # do the rebase
 echo -e "\n\n********* REBASING *******\n\n"
 git rebase main devel
 git branch
 git ls-files
 # diff the branches
 echo -e "\n\n************* DIFFING THE BRANCHES ****\n\n"
 git diff main devel
 # get a log of the devel branch
 echo -e "\n\n********** git log on devel branch *** \n\n"
 git checkout devel
 git log
```