NOTE!- If we have made a branch from master branch and in new branch we have deleted some files(some cpad files & some files which are ignored by git).

But when we come back to master branch we get all cpad files or other files except those files which are ignored by git. As git not tracking these ignored files.

→ How to merge branchs with website example.

Here we will use Visual Studio Code with git to make a project (website) and keep

track of it.

For this make empty directry in which you save all files for website and you will make it git directory.

now open VS in this directory

Open a new file and type

! then enter you will get a format of html.

now go the website of

getbootstrap → documentation

↓

copy HTML TITLE

replace ← that copied one with that which is in VS

Now, download a new extension live server in VS

Live server helps to make a server with that HTML file.

now click go live button in lower right corner.

You will see your website.

Again go to getbootstrap

↓

navbar ← documentation

↓

Copy navbar

HTML code

↓

Paste in HTML in place of Hello world line in body.

After saving open your browser/ server you can see a rocket in your server.

Now since you have made a running website, you will work on enhancing it.

now open git bash in that same directory in which you have open vs ~~code~~ editor.

check status, it will say no git repository.

Make one, then again check status, add and commit file of website.

NOw, you as a developer want to ~~add~~ update your website design but you don't want that your ~~server~~ ~~main website~~

work will affect your website.

For that you can make another branch to work with.

For this write command

git checkout -b tryout

After running this code you are in branch, so you can modify your code in VS.

NOTE!- Before moving from one branch to another must ensure that your last branch is clean.

Now, you have edited your website, but due to some reason you have to return to your master branch, for that write

git checkout master

Now, to again go to that branch run

git checkout tryout

You can run command

git branch

to see names of all branches.

By doing so, you can work on both branches or master branch

Now, if you have modified & checked your branch that there is no error or problem and you want to merge it in master branch.

For this first ~~clean the~~ Commit & make clean the branch.

Switch to master branch, then run command

git merge tryout

here, some time you find merge conflict, it arises when you made changes in both master branch & secondry branch and both changes clashes, then have to choose one of them.

Here, Vs provide facality to help you to choose one of them, so it is preferable to use Vs here.

Now, after choosing one you ~~have~~ asked git to merge that branch in master

branch.

If you check status now, it will show index.html as unmerged file, so to finally merge it, add it & make commit.

And you have successfull merged that branch in master branch.

→ Resolving merge conflict & Managing branches :-

Merge conflict is a problem arises during merging the branch in master, it happen when, you have modified some files in secondary branch and also you have modified some files in master branch after making that new branch

and now you are merging secondry branch in master branch then not all modification will cause merge conflict only that will cause merge conflict which is modified both in master branch all well as secondry branch.

When merge conflict arises you have resolve it.

To resolve you can just cut/delete one and kept one or VS code makes it easier by providing facilites to choose b/w them.

That how, you can resolve merge conflict.

Now, we will learn some command to manage branches.

We have already learned how to make branches & traverse through them.

now, if you want to know how many branches we have you can use command

```
git branch
```

it shows all names of branch with (*) sign on that branch in which you are currently now.

- `git branch -v`

this command show name of branchs, beside which you can see hash of last

Commit and message of last Commit.

- git branch --merged.

This command show name of branchs you have already merged.

- ~~git branch --merged~~
- git branch --no-merged

This command show name of branchs not merged.

To delete a branch you can use a command

git branch -d name of branch

this command give warning if the branch is not merged

anywhere.

And if branch is merged it will delete it.

If you want to delete a branch not merged you can write.

git branch -D name of branch

→ Pushing branches to the github:

As we already know to push a local repository must needed a remote repository linked with it, you can push two local repository in one remote repository.

You need one remote repo for each local repo.