Week 1 Assignment

Ref URL - https://learngitbranching.js.org/

1. Git-hub:
   a. Basic usage using the CLI
      i. Setup a Local Repository
      ii. Setup a Remote Repository
      iii. Create Local branches (Feature branch, Dev. branch, QA Branch, Master / Prod. Branch, Delivery Branches)
      iv. Create Remote branches
      v. Add files, Make changes to existing files, Add folders, Remove folders, remove files
      vi. Check-in, Stage, Commit, Push files into Feature Branch
      vii. Promote code from Feature branch to Dev. branch via Pull requests
      viii. Check-out the latest code from remote branch to local branch
      ix. Explore the diff. between Checkout vs Pull
      x. Get two people to make changes to the same file, check-in & handle merge conflicts
      xi. Ensure the code is in sync. with the latest changes across all branches à from Prod. à QA à Dev. à Feature

   b. Basic usage using the GUI Client (VS Code or Github Client etc.)
      i. <Repeat all the above steps using a GUI>

   c. On the ground day to day scenarios
      i. Reset / revert one or more files to the previous state & ignore the local changes (Soft reset & Hard reset)
      ii. Stash the local changes during merge conflicts
      iii. Rebasing with all options (reword, edit, squash, fixup, exec, drop)
      iv. Git log, status & reflog

   d. Follow the assignments / ready made from git guides
      i. Git command-line interface and conventions → git help cli
      ii. A Git core tutorial for developers → git help core-tutorial
      iii. Tweaking diff output → git help diffcore
      iv. A useful minimum set of commands for Everyday Git → git help everyday
      v. A Git Glossary → git help glossary
      vi. Specifies intentionally untracked files to ignore → git help ignore
      vii. Defining submodule properties → git help modules
      viii. A tutorial introduction to Git → git help tutorial
      ix. A tutorial introduction to Git: part two → git help tutorial-2
      x. An overview of recommended workflows with Git → git help workflows