Module: Git Assignment

This Sample Assignment will go through a workflow that uses git, GitHub, and the Sublime text editor to model professional software development.

IMPORTANT: You must do all the following steps in precisely the same order. If you get to a step you don't understand, don't go on to the next step until you get your question answered.

https://github.com/APCSLowell/SampleAssignment

Once the assignment is completed you can try below statements:

Problem Statement:

1. Create a txt file, and do the following commits in them:
   a) Add first line as "this is first commit"
   b) Create a feature branch f1, in this branch change this txt file and add second line as "this is feature1"
   c) From master, create another feature branch f2, add in txt file second line as "this is feature2"
   d) Merge f1 on master While merging f2 there were some errors, resolve the errors and submit the GitHub repo to public repository.

2. You work as a Devops Architect in ABC Softwares. The company has been struggling to manage their product releases. The releases should happen on 25th of every month. Suggest a Git Workflow Architecture for this requirement.
   Simulate this workflow, by creating a pseudo code files and branches, and upload the same to your GitHub Account. As a part of solution, share the link to your GitHub repository.

3. You work for ABC Software & Co. You have been assigned the task of updating the Master branch of their Git repository with all the features from the feature branches.

   Consider,

   • Feature1 branch

   • Feature2 branch

   The company relies on a monolithic architecture, and for now all the code resides in one file "main.c".

   Main.c

   ```
   pseudo
   code
           {
           Initial Function()
   ```

```
      {
        //Sample Code
      }

      Initial Security()
      {
       //Sample Code
      }



      }
```

The respective features have been added in the feature branches for main.c. Meanwhile, a security patch was made to the master branch, and now feature1 and feature2 branches are behind from master by 1 commit.

Following tasks have to be done:

1. Update Feature1 and Feature2 branch with the Security Patch

2. Apply changes of Feature1 and Feature2 branch on master

3. Finally push all the branches to GitHub

For Solving this, please push the code to the repository to your GitHub account and then work.

As a solution, please submit your GitHub's repository link.