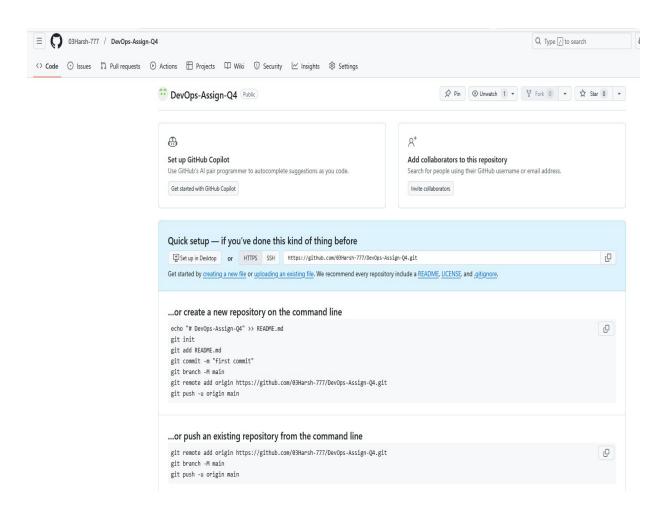
# CA6C1 - DevOps - National Institute of Technology, Trichy

# Assignment 1 - BASH & GIT

# **Question 4**

a. Create a master repository using a GIT terminal in any version control platform (github, gitlab, bitbucket, gogs, codeberg, radicle, gitea etc.) and add files of any one question (Q1, Q2, Q3) from this assignment into this repository. Capture repository status at this point.



### **Add Files and Commit Changes**

```
Microsoft Windows [Version 10.0.19045.5487]
(c) Microsoft Corporation. All rights reserved.

C:\Users\LENOVO\Desktop\DevOPS\assignment1-bash-03Harsh-777\q4>git init
Initialized empty Git repository in C:/Users/LENOVO/Desktop/DevOPS/assignment1-bash-03Harsh-777\q4>git add .

C:\Users\LENOVO\Desktop\DevOPS\assignment1-bash-03Harsh-777\q4>git add .

C:\Users\LENOVO\Desktop\DevOPS\assignment1-bash-03Harsh-777\q4>git add .

warning: in the working copy of 'Karprekarcode.sh', LF will be replaced by CRLF the next time Git touches it

C:\Users\LENOVO\Desktop\DevOPS\assignment1-bash-03Harsh-777\q4>git status

On branch master

No commits yet

Changes to be committed:

(use "git rm --cached <file>..." to unstage)

new file: File Types.png

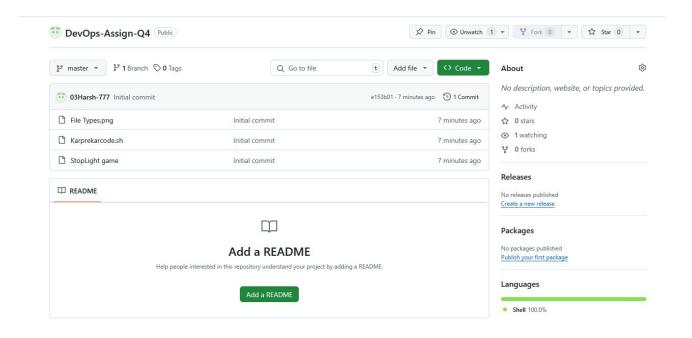
new file: Karprekarcode.sh

new file: StopLight game
```

b. Push the files of one question (Q1, Q2, Q3) from this assignment from your local machine to a repository. Capture repository status at this point.

#### Add the GitHub Remote

```
C:\Users\LENOVO\Desktop\DevOPS\assignment1-bash-03Harsh-777\q4>git status
On branch master
No commits yet
Changes to be committed:
 (use "git rm --cached <file>..." to unstage)
       new file: File Types.png
       new file: Karprekarcode.sh
       new file: StopLight game
C:\Users\LENOVO\Desktop\DevOPS\assignment1-bash-03Harsh-777\q4>git add .
C:\Users\LENOVO\Desktop\DevOPS\assignment1-bash-03Harsh-777\q4>git commit -m "Initial commit"
[master (root-commit) e153b01] Initial commit
3 files changed, 136 insertions(+)
create mode 100644 File Types.png
create mode 100644 Karprekarcode.sh
create mode 100644 StopLight game
C:\Users\LENOVO\Desktop\DevOPS\assignment1-bash-03Harsh-777\q4>git push origin master
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 4 threads
Compressing objects: 100% (5/5), done.
Writing objects: 100% (5/5), 24.83 KiB | 6.21 MiB/s, done.
Total 5 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To https://github.com/03Harsh-777/DevOps-Assign-Q4
* [new branch]
                    master -> master
```



C:\Users\LENOVO\Desktop\DevOPS\assignment1-bash-03Harsh-777\q4>git status On branch master nothing to commit, working tree clean

c. Create a new branch to your existing repository and now pull your repository locally, make changes to 9 comment lines and merge into the master repository. Capture repository status at this point.

#### Create and Switch to a New Branch

C:\Users\LENOVO\Desktop\DevOPS\assignment1-bash-03Harsh-777\q4>git checkout -b newBranch Switched to a new branch 'newBranch' This creates a new branch named newBranch and switches to it.

## Pull the Latest Changes from GitHub

```
C:\Users\LENOVO\Desktop\DevOPS\assignment1-bash-03Harsh-777\q4>git pull origin master
From https://github.com/03Harsh-777/DevOps-Assign-Q4
* branch master -> FETCH_HEAD
Already up to date.
```

## Make chances to StopLight game

```
#comment no. 1 done
71
     #comment no. 2 done
72
73
     #comment no. 3 done
     #comment no. 4 done
74
     #comment no. 5 done
75
76
     #comment no. 6 done
77
     #comment no. 7 done
78 #comment no. 8 done
     #comment no. 9 done
79
```

## **Add and Commit Changes**

```
C:\Users\LENOVO\Desktop\DevOPS\assignment1-bash-03Harsh-777\q4>git add .
C:\Users\LENOVO\Desktop\DevOPS\assignment1-bash-03Harsh-777\q4>git commit -m "9 Comment lines are added"
[newBranch 93c6951] 9 Comment lines are added
1 file changed, 9 insertions(+)
```

#### Push the New Branch to GitHub

```
C:\Users\LENOVO\Desktop\DevOPS\assignment1-bash-03Harsh-777\q4>git push -u origin newBranch
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 4 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 351 bytes | 351.00 KiB/s, done.
Total 3 (delta 2), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (2/2), completed with 2 local objects.
remote:
remote: Create a pull request for 'newBranch' on GitHub by visiting:
remote: https://github.com/03Harsh-777/DevOps-Assign-Q4/pull/new/newBranch
remote:
To https://github.com/03Harsh-777/DevOps-Assign-Q4
* [new branch] newBranch -> newBranch
branch 'newBranch' set up to track 'origin/newBranch'.
```

### Switch Back to Master

### Merge the Feature Branch into Master

```
C:\Users\LENOVO\Desktop\DevOPS\assignment1-bash-03Harsh-777\q4>git merge newBranch
Updating e153b01..93c6951
Fast-forward
StopLight game | 9 ++++++++
1 file changed, 9 insertions(+)
```

## Push the Merged Changes to GitHub

```
C:\Users\LENOVO\Desktop\DevOPS\assignment1-bash-03Harsh-777\q4>git push origin master
Total 0 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To https://github.com/03Harsh-777/DevOps-Assign-Q4
   e153b01..93c6951 master -> master
```

## **Capture Repository Status**

C:\Users\LENOVO\Desktop\DevOPS\assignment1-bash-03Harsh-777\q4>git status On branch master nothing to commit, working tree clean