MCQ

What command is used to initialize a Git repository locally? [ b ]

a) git clone

b) git init

c) git commit

d) git push

How can you check the status of your changes in a Git repository? [ a]

a) git status

b) git check

c) git diff

d) git log

What command is used to stage files for a commit in Git? [ c ]

a) git add

b) git stage

c) git commit

d) git push

What is the purpose of forking a repository on GitHub? [ b ]

a) To create a new branch in the original repository

b) To merge changes from one repository to another

c) To copy a repository under your GitHub account

d) To revert changes in a repository

What is a Pull Request used for in GitHub? [ a ]

a) Requesting changes to be pulled into a repository

b) Submitting changes for approval and merging

c) Deleting branches in a repository

d) Checking the status of commits in a repository

What does a 'Merge Conflict' indicate in a GitHub pull request? [ d ]

a) Successful merging of changes

b) Inconsistencies between branches that need to be resolved

c) Rejection of a pull request

d) Approval of changes for merging

Which command is used to create a new branch in Git? [ a ]

a) git branch

b) git commit

c) git checkout

d) git merge

What command is used to view the commit history in Git? [ d ]

a) git log

b) git history

c) git show

d) git status

How can you undo the last commit in Git? [b ]

a) git amend

b) git reset

c) git revert

d) git undo

What is a repository in GitHub? [ a ]

a) A folder on your local machine

b) A collection of project files and revision history

c) A social media platform for developers

d) A code editor tool

How can you clone a repository from GitHub to your local machine? [ d ]

a) git clone

b) git fetch

c) git init

d) git pull

What is the purpose of the 'Issues' tab in GitHub repositories? [ a ]

a) To track and discuss bugs, enhancements, and tasks

b) To view commit history

c) To create new branches

d) To merge changes into the main branch

Which GitHub feature allows multiple people to collaborate on a project simultaneously? [ d ]

a) Pull Requests

b) Forking

c) Issues

d) Branches

What does the 'README.md' file in a GitHub repository contain? [ a ]

a) Detailed instructions for using the project

b) A list of contributors

c) Commit history

d) License information

How can you update your local repository with changes from a remote repository in Git? [ db ]

a) git merge

b) git fetch

c) git update

d) git commit -u origin

What is the purpose of the 'git push' command in Git? [ b ]

a) To stage changes for commit

b) To download changes from a remote repository

c) To update the remote repository with local changes

d) To switch between branches

What is git and github?

* Git:
* A distributed version control system to manage code and track changes locally and remotely.
* Git helps developers keep track of evry change made toa project’s code, making it easy to collaborate and revert to previous versions of the code.
* It was released in 2005
* It was developed by linux.
* GitHub:
* Github is a cloud based platform for hosting git repositories.
* Developers push their local git repositories to github to share code, track issues, and collaborate with others.
* It was released in 2008.
* It was developed by microsoft.

What is CVCS and DVCS ?

* CVCS:
* CVCS Means centralized version control system.
* Every time user need to pull the data from the server and push back once done.
* Only online access available.
* It is clower as command needs to communicate to the server.
* If central repository is down, developer can’t work.
* DVCS:
* DVCS Means distributed version control system.
* It also known as decentralized version control system.
* It has the local repository and remote server repository so continous connection is not required.
* Both online offline access available.
* Fast as it deals with local repository.
* No impact of central repository failure, as it use local for code.

Create a project of any and push the project

* Create one folder in the desktop name as the bank\_details project.
* Go to the visual studio code
* In visual studio code go to file in go to folder and select folder bank\_details.
* In visual studio code go to new file create with extension bank\_details.py
* Enter bank details in the code space
* Go to terminal take new terminal
* Git init
* git add bank\_details
* git commit “first commit”
* git branch -M main
* git remote add origin “repo URL”
* git pull –rebase origin main
* Git push -u origin main

Create 3 branches and 5 tags

Branch creation:

* Create branch puropale\_branch
* Create branch bhavya\_branch
* Create branch bhavyasri\_branch

Tags creation:

* In the left sidebar,click history
* Right click the commit and click create tag
* In the “ create a tag” dialog window, type the name of the tag
* Click create tag.

Create tag tag\_one

Create tag tag\_two

Create tag tag\_three

Create tag tag\_four

Create tag tag\_five.

Create a Keygen and push using ssh

* Open terminal
* Paste the text below,replacing the email used in the github email address ssh-keygeb-t ed25519 -C, [bhavyasri@puropalecreations.com](mailto:bhavyasri@puropalecreations.com).
* At the promt, type a secure passpharse.
* Generate ssh key pair.
* Add ssh key to github account
* Configure ssh for github
* Clone repository or add remote URL.
* Commit and push changes.