**NAME : MEGHA CHANDEL**

GitHub Exercise

Background:

You are part of a development team working on a small project called "Sample Project". The project is designed to serve as a foundation for your team's Git and GitHub workflow training. The team has decided to host the project on GitHub to facilitate collaboration, version control, and centralized code management. Your task is to initialize the project in Git, push it to a remote GitHub repository, and practice working with branches to simulate feature development and maintenance

*Key Questions:*

**1. How will you set up the project for version control and push it to GitHub?**

Step –1 : First we need to initialize the git Locally , but before that lets make a directory , we can do that by **( mkdir sample project)**

Step 2: Change the directory using **( cd sample project )**

Step 3 : Initialize Git locally ( **git init )**

Step 4 : Stage it using the command **( git add . )**

Step 5 : Commit it using **( git commit –m “First commit” )**

Step 6 : Link the local directory to the GitHub Repo using ( **git remote add origin** [**https://github.com/MegaChandel/Meghachandel\_Nexturn\_Program.git**](https://github.com/MegaChandel/Meghachandel_Nexturn_Program.git) **)**

Step 7 : Push the commits to the Repo **( git push –u main/master )**

**2. What steps will you take to create, push, and manage branches effectively?**

Step 1 : To create a new branch we can use **( git checkout -b feature/update-readme)**

Step 2 : We can create the README.md file locally in the folder

Step 3 : Then we can Stage it usinf **( git add README.md)**

Step 4 : Commit **( git commit –m “Second commit )**

Step 5 : This time ill push it to the new branch by usinf **( git push –u origin feature/update-readme )**

**3. How will you ensure the changes in the feature branch are merged into the main branch?f**

Step 1 : I will first switch back to the main branch by **( git checkout main)**

Step 2 : Then ill merge it using **( git merge feature/update-readme)**

Step 3 : Then I will push the changes **( git push origin main)**

**4. What commands will you use to clean up unused branches locally and remotely?**

Step 1 : I will delete the local Feature Branch locally by using **( git branch -d feature/update-readme )**

Step 2 : Then ill delete the Remote feature branch by using **( git push origin --delete feature/update-readme )**