Git and GitHub Assignment

ABC is a software company and you have been hired as DevOps Engineer and you have to implement DevOps Lifecycle for a certain number of projects. Below tasks are assigned to you to maintain the distributed version control for a project called **GDGNASHIK** and help developers to commit their code in local and remote repository (Git Hub)

1. Create a central repository **GDGNASHIK** to maintain the project and upload the latest version of the project to this repository. **(Hint:-use GitHub)**

2. Chetan and Mitesh are 2 developers who are going to work on this project so you as a DevOps engineer help them to create 2 branches for Chetan_branch and Mitesh_branch so that they can work independently. (Write the steps to create branches in local and remote repository)

   (Hint: -use branches concept)

3. End of each day at 5PM you must merge the code of each branch to master branch and update the central repository (write the steps to perform this task).**(Hint git push)**

4. Chetan was on leave for a week and once he returned to his work he wants to sync his branch code with master branch (what strategy you will use help Chetan).**(Hint:-git pull)**

5. Sagar is a new developer joined the **GDGNASHIK** project, so help him to create upto date project on his machine and also create a branch called Sagar_branch.**(Hint:- git branch)**

6. There is file called gitModule.txt which was modified by Sagar and Chetan and ultimately the code is to be merged to master branch. What are the challenges you will face to merge the code how will you resolve this problem? (**Hint:- merge conflict)**

7. There are different versions of project are created. But operation team wants to implement version 5 how can you help them to get this version.**(Hint:-git tag)**