STARZ UNIVERSITY
COURSE:ART277
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SECTION: 4

1. Explain in your words the terms Git and Github.
   Ans:
   Git is a free and open source distributed version control system designed to handle everything from small to very large projects with speed and efficiency.
   Github: Is a provider of internet hosting for software development and version control using Git.

2. Explain the steps to download, install and configure git on PC.
   Ans:
   ~ Browse to the official Git website:https://git-scm.com/downloads.
   ~ Click the download link for Windows and allow the download to complete.
   ~ Browse to the download location (or use the download shortcut in your browser). Double~ click the file to extract and launch the installer.
   ~ Allow the app to make changes to your device by clicking yes on the user Account Control dialog that opens.
   ~ Review the GNU General Public License, and when you're ready to install, click Next.
   ~ The installer will ask you for an installation location. Leave the default, unless you have reason to change it, and click Next.
   ~ A component selection screen will appear leave the defaults unless you have a specific need to change them and click Next.
   ~ The installer will offer to create a start menu folder. Simply click Next.
   ~ Select a text editor you had like to use with Git. Use the drop-down menu to select notepad ++(or which ever text editor you prefer) and click Next.
   ~The next step allow u to choose a different name for your initial branch.
   ~ The default options are recommended, however this step allow u to decide which extra option you would like to enable.
   ~ Depending on the version of Git you are installing, it may offer to install experimental features. Unless you're feeling adventurous, leave them unchecked and click install.
   ~ Once the installation is complete, tick the boxes to view the Release Notes or Launch Git Bash, then click Finish.

3. Discuss the process to create and initialize a project in Git.
   Ans:
   ~ Create a directory to contain the project.
   ~ ***Go into the new directory.***
   ~ ***Type git init.***

~ Write some code.
~ Type git add to add the files.
~ Type git commit.
The first file to create (and add commit) is probably a ReadMe file, either as plain text or with Markdowns, describing the project.
Markdown allows u to add a bit of text Markup, like hyperlinks, **bold**/*italics*, or to indicate code with a monospare font. Markdown is easily converted to html for viewing in a web browser, and Github will do this for you automatically.

4. Explain the steps to pull and push from a local repository to a remote repository.
   Ans:
   The git push command is used to transfer or push the commit, which is made on a local branch in your computer to a remote repository like Github. The comman used for pushing to Github is given below:

   ~ Creating a new repository:
   - you need to create a new repository and click on the plus sign.
   - Fill up all the required details.
   ~ Open your Bash
   - Git Bash can be downloaded and it is a shell used to interface with the operating system which follows the UNIX command.

5. In your own words, explain the term push, commit, stage, and branches in Git.
   Ans:
   - Push→ The git push command is used to upload local repository content to a remote repository. Pushing is how u transfer commits from your local repository to a remote repository.
   - Commit→ The git commit command captures a snapshot of the project's currently staged changes.
   - Stage→ To stage a file is simply prepare it finely for a commit.
   - Branches→ In Git, branches are a part of your everyday development process. Git branches are effectively a pointer to a snapshot of your challenges.