23 Jan 2023 Git and Git Hub:
Assignment -

Que-1,-> What is Git?

An. -) Crit is a distributed version control system used for software development and source code management. It allows multiple developers to work on the same Codebase, track changes and manage conflicts efficiently,

Oue.?.) What do you understand by the term 'Version control System'?

As , A version control system (VCS) is a software tood that tracks charges to source code over time, enables collaboration blu molliple developers and maintains a history of the code base. It helps manages versions of code and facilitates recovery of older versions if meeded. Common version control system include Git, SW ad Mercariol.

Que. 3. ) What is Colot Hub?.

Ans. -> Critthub is a web-based platform that hosts Crit srepositionies, providing version control, collaboration, and project management beatures for software development. It allows developers to store their code, track changes, and collaborate with other developers easily.

Oue. 4. -> Mention some popular Cost hosting services.

Ans. -> Cost Hub, Git Lab, Bit bucket, Source Forge, Beanstalk etc.

Osue. 5. > Different types of version control systems.

Ars. > There are two main types of version control systems: 
(i) Centralized Version Control systems (CVCS)

(ii) Distributed Versions Control dystens (DVCS)

Que 6. -> What benefits come with using GIT?

Ans. -> Speed -> Git is fost and efficient, allowing developers to work quickly and make brequet commits.

Distributed -s Crit is a distributed version control system, meaning that developers can work on their local machines and synchronize changes with others later.

Collaboration -> Git makes it easy for multiple developers to work on the same codebose, persolve coefficts and track usage changes.

Open Source > Git is open source software,

Browthing and Menging & Grit provides a powerful branching and merging system, allowing developers to work an anothiple bectures simultaneously.

One. 7. > What is Git suppository?

And A Crit repositiony is a place where a p collection of Giles, along with their couplede revision history, is stored. A srepositiony is a disredory that contains the Giles and and adula for a project, including all post and correct changes to the codebase.

Que. 8. > How can you initialize a repository in Git?

Aus. > 5 To imitialize a mew Git repository, you can use the "git imit" command in the terminal or CMD.

This creates a new Git repository in the correct directory.

<sup>&</sup>gt; You can add likes to the stepository and start tracking chages - "git add this nones"

<sup>-&</sup>gt; And Prinally, you can commit the chages - " git comit -m" ""