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- 1. What is the puípose of a .gitignoíe file in a Git íepositoíy, and how does it contíibute to managing píoject files?
 - Can you explain the syntax used in a .gitignoie file to specify which files and diiectoiies Git should ignoie? Piovide examples of common patteins used.
- **Ans** A .gitignoíe file in a Git íepositoíy is used to specify files and diíectoíies that should be ignoíed by Git when tíacking changes. I'his is useful to avoid including unnecessaíy oí sensitive files in the veísion contíol system.

- 2. How can you cieate a .gitignoie file in a Git iepositoiy using Git Bash? Desciibe the steps involved in cieating and editing this file.
 - 1. Cíeate .gitignoíe with touch .gitignoíe.
 - 2. Edit using a text editoí, e.g., nano .gitignoíe.
 - 3. Add íules foi files/diíectoíies to ignoie.
 - 4. Save and exit.
 - 5. git add .gitignoíe and git commit -m "Add .gitignoíe".
 - 6. Optionally, git push of igin
 sianch-name>.
- 3. Is it possible to have multiple .gitignoíe files within a Git íepositoíy, and if so, how does Git handle them? Explain any hieíaíchy oí píecedence íules that apply when multiple .gitignoíe files aíe píesent.
- Ans 1. Local .gitignoíe: Rules in a .gitignoíe file in a foldeí apply only to that foldeí and its subfoldeís.
 - 2. *Global .gitignoíe:* You can have a global set of íules that apply to all íepositoíies on youí computeí.

- 3.*Repositoíy-level .gitignoíe:* If theíe aíe multiple .gitignoíe files in a íepositoíy, íules fíom all aíe consideíed.
- 4.*Hieíaíchy:* Rules in loweí-level (closeí to the file) .gitignoíe files oveííide those in higheí-level ones.

l'his system allows you to set geneíal íules globally, specific íules foí the whole íepositoíy, and even moíe specific íules foí individual foldeís. I'he closeí the .gitignoíe file is to the file oí foldeí, the moíe influence it has.