About .gitignore file
1. The .gitignore file in a Git repository is used to specify which files and
   directories should be ignored by Git.
   i.e files will not be tracked, staged, or committed, even if they exist in your working directory.

2. Where we should place .gitignore file in the repository?
   The .gitignore file is usually placed at the root of your repository, but you can also have additional .
   gitignore files in subdirectories to apply rules to specific parts of your project

3. How many .gitignore files should we add in a repository?
-> we can have multiple .gitignore files.

Practical Demo of .gitignore file.

Step 1: Create a new Directory in your workspace (says: git-demo)
Step 2: Go inside that directory and open git bash
Step 3: initialize "git-demo" directory as git repository
        by using "git init" command
Step 4: Add some files in the repository, For example
            F1.txt
            F2.txt
            F1.java
            F2.java
            A1.log
            A2.log
Step 5: now check the status of repository by using "git status"
        all files status is Untracked files.

Step 6: Now Create ".gitignore" file and specify the files
          which you want to ignore and check the status of repository

** Some Examples:
# 1) Ignore F1.txt
->   F1.txt

2) Ignoring Files by Extension:
Ignore all log files
-> *.log
Ignore all java files
-> *.java

Ignoring Directories
-> directory_name

4) Ignoring specific files from a directory
->   directory_name/A1.log

5) Ignoring Files Except Certain Ones:
   ignore all log files excpet "server.log"
-> *.log
   !server.log

Note:If a file is already being tracked by Git and you add it to .gitignore, it will remain in the repository
until you explicitly remove it.

git rm --cached <file>

Note: The order of patterns in the .gitignore file
->   More specific rules should come after more general.

Note: If file specificied in .gitignore but you want to add
       it into staging area(you want to track) then use "git add"
       command with -f (f means forcefully) option
        git add -f File_name

sample .gitignore file

.gitignore - Notepad

File Edit Format View Help

```
# ignore F1.txt
F1.txt


# Ignore all text files
*.txt

# Ignore all pdf extentions files except A.pdf
*.pdf
  !A.pdf


# Ingore Direct ABC
ABC


# Ingore File from specific Directory
# Ingore A1.txt from Abc directory
Abc/A1.txt
```

line start with # symbol are commented lines. comment means non executable line

we add comment in git by using # symbol and # is always added at begining of line

Comments provides extra information about the code