Software Lab

Question 1 to 10 :-

```
dr9trio@dr9trio-HP-Pavilion-Gaming-Laptop-15-ec2xxx:~$ mkdir Inf43Hw2
dr9trio@dr9trio-HP-Pavilion-Gaming-Laptop-15-ec2xxx:~$ cd Inf43Hw2/
dr9trio@dr9trio-HP-Pavilion-Gaming-Laptop-15-ec2xxx:~/Inf43Hw2$ touch file1.txt
dr9trio@dr9trio-HP-Pavilion-Gaming-Laptop-15-ec2xxx:~/Inf43Hw2$ gedit file1.txt
dr9trio@dr9trio-HP-Pavilion-Gaming-Laptop-15-ec2xxx:~/Inf43Hw2$ cat file1.txt
Ravi Bishnoi  BT21CSE117
dr9trio@dr9trio-HP-Pavilion-Gaming-Laptop-15-ec2xxx:~/Inf43Hw2$ git config --global user.name "doctor9trio"
dr9trio@dr9trio-HP-Pavilion-Gaming-Laptop-15-ec2xxx:~/Inf43Hw2$ git config --global user.email "ravibishnoi2110@gmail.com"
dr9trio@dr9trio-HP-Pavilion-Gaming-Laptop-15-ec2xxx:~/Inf43Hw2$ git config --global -l
user.name=doctor9trio
user.email=ravibishnoi2110@gmail.com
dr9trio@dr9trio-HP-Pavilion-Gaming-Laptop-15-ec2xxx:~/Inf43Hw2$ git init
Initialized empty Git repository in /home/dr9trio/Inf43Hw2/.git/
dr9trio@dr9trio-HP-Pavilion-Gaming-Laptop-15-ec2xxx:~/Inf43Hw2$ git status
On branch master

No commits yet

Untracked files:
  (use "git add <file>..." to include in what will be committed)
        file1.txt

nothing added to commit but untracked files present (use "git add" to track)
dr9trio@dr9trio-HP-Pavilion-Gaming-Laptop-15-ec2xxx:~/Inf43Hw2$ git add file1.txt
dr9trio@dr9trio-HP-Pavilion-Gaming-Laptop-15-ec2xxx:~/Inf43Hw2$ git status
On branch master

No commits yet

Changes to be committed:
  (use "git rm --cached <file>..." to unstage)
        new file:   file1.txt

dr9trio@dr9trio-HP-Pavilion-Gaming-Laptop-15-ec2xxx:~/Inf43Hw2$ git commit -m "Student Detail"
[master (root-commit) 7291dc4] Student Detail
 1 file changed, 1 insertion(+)
 create mode 100644 file1.txt
dr9trio@dr9trio-HP-Pavilion-Gaming-Laptop-15-ec2xxx:~/Inf43Hw2$ git log
commit 7291dc469c25af3523237e5fe82985271063078a (HEAD -> master)
Author: doctor9trio <ravibishnoi2110@gmail.com>
Date:   Thu Mar 16 14:02:52 2023 +0530

    Student Detail
dr9trio@dr9trio-HP-Pavilion-Gaming-Laptop-15-ec2xxx:~/Inf43Hw2$ gedit file1.txt
dr9trio@dr9trio-HP-Pavilion-Gaming-Laptop-15-ec2xxx:~/Inf43Hw2$ cat file1.txt
Ravi Bisoi  BT21CSE117
dr9trio@dr9trio-HP-Pavilion-Gaming-Laptop-15-ec2xxx:~/Inf43Hw2$ git reset --hard
HEAD is now at 7291dc4 Student Detail
dr9trio@dr9trio-HP-Pavilion-Gaming-Laptop-15-ec2xxx:~/Inf43Hw2$ cat file1.txt
Ravi Bishnoi  BT21CSE117
dr9trio@dr9trio-HP-Pavilion-Gaming-Laptop-15-ec2xxx:~/Inf43Hw2$ 
```

Question 11 to 15 :-

```
dr9trio@dr9trio-HP-Pavilion-Gaming-Laptop-15-ec2xxx:~/Inf43Hw2$ cat file1.txt
Ravi Bishnoi  BT21CSE117
dr9trio@dr9trio-HP-Pavilion-Gaming-Laptop-15-ec2xxx:~/Inf43Hw2$ gedit file1.txt
dr9trio@dr9trio-HP-Pavilion-Gaming-Laptop-15-ec2xxx:~/Inf43Hw2$ cat file1.txt
Ravi Bishnoi
major
dr9trio@dr9trio-HP-Pavilion-Gaming-Laptop-15-ec2xxx:~/Inf43Hw2$ git commit -m "Now has my major"
On branch master
Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git restore <file>..." to discard changes in working directory)
        modified:   file1.txt

no changes added to commit (use "git add" and/or "git commit -a")
dr9trio@dr9trio-HP-Pavilion-Gaming-Laptop-15-ec2xxx:~/Inf43Hw2$ gedit file1.txt
dr9trio@dr9trio-HP-Pavilion-Gaming-Laptop-15-ec2xxx:~/Inf43Hw2$ cat file1.txt
Ravi Bishnoi
major
Restaurant:- Hotel Flower Inn
Movie:- Nevermore
dr9trio@dr9trio-HP-Pavilion-Gaming-Laptop-15-ec2xxx:~/Inf43Hw2$ git stage file1.txt
dr9trio@dr9trio-HP-Pavilion-Gaming-Laptop-15-ec2xxx:~/Inf43Hw2$ git commit -m "Added favorite restaurant"
[master b2b0194] Added favorite restaurant
 1 file changed, 4 insertions(+), 1 deletion(-)
dr9trio@dr9trio-HP-Pavilion-Gaming-Laptop-15-ec2xxx:~/Inf43Hw2$ git commit -amend -m "Added favorite restaurant and movie"
error: did you mean `--amend` (with two dashes)?
dr9trio@dr9trio-HP-Pavilion-Gaming-Laptop-15-ec2xxx:~/Inf43Hw2$ git commit --amend -m "Added favorite restaurant and movie"
[master 10ca965] Added favorite restaurant and movie
 Date: Thu Mar 16 14:28:42 2023 +0530
 1 file changed, 4 insertions(+), 1 deletion(-)
dr9trio@dr9trio-HP-Pavilion-Gaming-Laptop-15-ec2xxx:~/Inf43Hw2$
```

Question 16 to 19 :-

```
dr9trio@dr9trio-HP-Pavilion-Gaming-Laptop-15-ec2xxx:~/Inf43Hw2$ git log
commit 10ca96527db3edb189ed39c2653ed21e4b4e1d1f (HEAD -> master)
Author: doctor9trio <ravibishnoi2110@gmail.com>
Date:   Thu Mar 16 14:28:42 2023 +0530

    Added favorite restaurant and movie

commit 71e4d08ecbd148c009032fbbf91d896c054423bd
Author: doctor9trio <ravibishnoi2110@gmail.com>
Date:   Thu Mar 16 14:23:31 2023 +0530

    Student Detail
dr9trio@dr9trio-HP-Pavilion-Gaming-Laptop-15-ec2xxx:~/Inf43Hw2$ git checkout 71e4
Note: switching to '71e4'.

You are in 'detached HEAD' state. You can look around, make experimental
changes and commit them, and you can discard any commits you make in this
state without impacting any branches by switching back to a branch.

If you want to create a new branch to retain commits you create, you may
do so (now or later) by using -c with the switch command. Example:

  git switch -c <new-branch-name>

Or undo this operation with:

  git switch -

Turn off this advice by setting config variable advice.detachedHead to false

HEAD is now at 71e4d08 Student Detail
dr9trio@dr9trio-HP-Pavilion-Gaming-Laptop-15-ec2xxx:~/Inf43Hw2$ cat file1.txt
Ravi Bishnoi  BT21CSE117
dr9trio@dr9trio-HP-Pavilion-Gaming-Laptop-15-ec2xxx:~/Inf43Hw2$ git checkout master
Previous HEAD position was 71e4d08 Student Detail
Switched to branch 'master'
dr9trio@dr9trio-HP-Pavilion-Gaming-Laptop-15-ec2xxx:~/Inf43Hw2$ cat file1.txt
Ravi Bishnoi
major
Restaurant:- Hotel Flower Inn
Movie:- Nevermore
dr9trio@dr9trio-HP-Pavilion-Gaming-Laptop-15-ec2xxx:~/Inf43Hw2$ git log
commit 10ca96527db3edb189ed39c2653ed21e4b4e1d1f (HEAD -> master)
Author: doctor9trio <ravibishnoi2110@gmail.com>
Date:   Thu Mar 16 14:28:42 2023 +0530

    Added favorite restaurant and movie

commit 71e4d08ecbd148c009032fbbf91d896c054423bd
Author: doctor9trio <ravibishnoi2110@gmail.com>
Date:   Thu Mar 16 14:23:31 2023 +0530

    Student Detail
dr9trio@dr9trio-HP-Pavilion-Gaming-Laptop-15-ec2xxx:~/Inf43Hw2$ 
```

Question 20 to 26 :-

```
dr9trio@dr9trio-HP-Pavilion-Gaming-Laptop-15-ec2xxx:~/Inf43Hw2$ touch file2.txt
dr9trio@dr9trio-HP-Pavilion-Gaming-Laptop-15-ec2xxx:~/Inf43Hw2$ gedit file2.txt
dr9trio@dr9trio-HP-Pavilion-Gaming-Laptop-15-ec2xxx:~/Inf43Hw2$ git stage file2.txt
dr9trio@dr9trio-HP-Pavilion-Gaming-Laptop-15-ec2xxx:~/Inf43Hw2$ git status
On branch master
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        new file:   file2.txt

dr9trio@dr9trio-HP-Pavilion-Gaming-Laptop-15-ec2xxx:~/Inf43Hw2$ git commit -m "Graduation year and Job"
[master 6aa3c8d] Graduation year and Job
 1 file changed, 1 insertion(+)
 create mode 100644 file2.txt
dr9trio@dr9trio-HP-Pavilion-Gaming-Laptop-15-ec2xxx:~/Inf43Hw2$ git log
commit 6aa3c8d998891f673be89869555c805f97aa9916 (HEAD -> master)
Author: doctor9trio <ravibishnoi2110@gmail.com>
Date:   Thu Mar 16 14:38:33 2023 +0530

    Graduation year and Job

commit 10ca96527db3edb189ed39c2653ed21e4b4e1d1f
Author: doctor9trio <ravibishnoi2110@gmail.com>
Date:   Thu Mar 16 14:28:42 2023 +0530

    Added favorite restaurant and movie

commit 71e4d08ecbd148c009032fbbf91d896c054423bd
Author: doctor9trio <ravibishnoi2110@gmail.com>
Date:   Thu Mar 16 14:23:31 2023 +0530

    Student Detail
dr9trio@dr9trio-HP-Pavilion-Gaming-Laptop-15-ec2xxx:~/Inf43Hw2$ git log file2.txt
commit 6aa3c8d998891f673be89869555c805f97aa9916 (HEAD -> master)
Author: doctor9trio <ravibishnoi2110@gmail.com>
Date:   Thu Mar 16 14:38:33 2023 +0530

    Graduation year and Job
dr9trio@dr9trio-HP-Pavilion-Gaming-Laptop-15-ec2xxx:~/Inf43Hw2$ gedit file1.txt
dr9trio@dr9trio-HP-Pavilion-Gaming-Laptop-15-ec2xxx:~/Inf43Hw2$ cat file1.txt
Ravi Bishnoi
major
Restaurant:- Hotel Flower Inn
Movie:- Nevermore
color:- Grey
dr9trio@dr9trio-HP-Pavilion-Gaming-Laptop-15-ec2xxx:~/Inf43Hw2$ rm file2.txt
dr9trio@dr9trio-HP-Pavilion-Gaming-Laptop-15-ec2xxx:~/Inf43Hw2$ git status
On branch master
Changes not staged for commit:
  (use "git add/rm <file>..." to update what will be committed)
  (use "git restore <file>..." to discard changes in working directory)
        modified:   file1.txt
        deleted:    file2.txt

no changes added to commit (use "git add" and/or "git commit -a")
dr9trio@dr9trio-HP-Pavilion-Gaming-Laptop-15-ec2xxx:~/Inf43Hw2$ 
```

Question 27 and 28 :-

```
dr9trio@dr9trio-HP-Pavilion-Gaming-Laptop-15-ec2xxx:~/Inf43Hw2$ git add file1.txt && git rm file2.txt
rm 'file2.txt'
dr9trio@dr9trio-HP-Pavilion-Gaming-Laptop-15-ec2xxx:~/Inf43Hw2$ git commit -m "Deleting file2.txt"
[master 40da13a] Deleting file2.txt
 2 files changed, 1 insertion(+), 1 deletion(-)
 delete mode 100644 file2.txt
```

Question 29 :-

```
dr9trio@dr9trio-HP-Pavilion-Gaming-Laptop-15-ec2xxx:~/Inf43Hw2$ git log -p -3
commit 40da13a6cf5899d365cf5c47fecef8e7faffbb33 (HEAD -> master)
Author: doctor9trio <ravibishnoi2110@gmail.com>
Date:   Thu Mar 16 14:44:19 2023 +0530

    Deleting file2.txt

diff --git a/file1.txt b/file1.txt
index 2f6edc6..72ccf18 100644
--- a/file1.txt
+++ b/file1.txt
@@ -2,3 +2,4 @@ Ravi Bishnoi
 major
 Restaurant:- Hotel Flower Inn
 Movie:- Nevermore
+color:- Grey
diff --git a/file2.txt b/file2.txt
deleted file mode 100644
index 77a3b00..0000000
--- a/file2.txt
+++ /dev/null
@@ -1 +0,0 @@
-2025 JPMC

commit 6aa3c8d998891f673be89869555c805f97aa9916
Author: doctor9trio <ravibishnoi2110@gmail.com>
Date:   Thu Mar 16 14:38:33 2023 +0530

    Graduation year and Job

diff --git a/file2.txt b/file2.txt
new file mode 100644
index 0000000..77a3b00
--- /dev/null
+++ b/file2.txt
@@ -0,0 +1 @@
+2025 JPMC

commit 10ca96527db3edb189ed39c2653ed21e4b4e1d1f
Author: doctor9trio <ravibishnoi2110@gmail.com>
Date:   Thu Mar 16 14:28:42 2023 +0530

    Added favorite restaurant and movie

diff --git a/file1.txt b/file1.txt
index 912a53a..2f6edc6 100644
--- a/file1.txt
+++ b/file1.txt
@@ -1 +1,4 @@
-Ravi Bishnoi  BT21CSE117
+Ravi Bishnoi
+major
+Restaurant:- Hotel Flower Inn
+Movie:- Nevermore
dr9trio@dr9trio-HP-Pavilion-Gaming-Laptop-15-ec2xxx:~/Inf43Hw2$
```

Question 30 to 32 :-

```
dr9trio@dr9trio-HP-Pavilion-Gaming-Laptop-15-ec2xxx:~/Inf43Hw2$ git checkout HEAD~1 file2.txt
Updated 1 path from a591838
dr9trio@dr9trio-HP-Pavilion-Gaming-Laptop-15-ec2xxx:~/Inf43Hw2$ ls
file1.txt  file2.txt
dr9trio@dr9trio-HP-Pavilion-Gaming-Laptop-15-ec2xxx:~/Inf43Hw2$ cat file1.txt
Ravi Bishnoi
major
Restaurant:- Hotel Flower Inn
Movie:- Nevermore
color:- Grey
dr9trio@dr9trio-HP-Pavilion-Gaming-Laptop-15-ec2xxx:~/Inf43Hw2$ git add file2.txt
dr9trio@dr9trio-HP-Pavilion-Gaming-Laptop-15-ec2xxx:~/Inf43Hw2$ git status
On branch master
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        new file:   file2.txt

dr9trio@dr9trio-HP-Pavilion-Gaming-Laptop-15-ec2xxx:~/Inf43Hw2$ git commit -m "Re-adding file2.txt"
[master a2ff573] Re-adding file2.txt
 1 file changed, 1 insertion(+)
 create mode 100644 file2.txt
```

Question 33 :-

```
dr9trio@dr9trio-HP-Pavilion-Gaming-Laptop-15-ec2xxx:~/Inf43Hw2$ git log -p
commit a2ff57399486cfc9244358d569fd81005dbc885a (HEAD -> master)
Author: doctor9trio <ravibishnoi2110@gmail.com>
Date:   Thu Mar 16 14:50:53 2023 +0530

    Re-adding file2.txt

diff --git a/file2.txt b/file2.txt
new file mode 100644
index 0000000..77a3b00
--- /dev/null
+++ b/file2.txt
@@ -0,0 +1 @@
+2025 JPMC

commit 40da13a6cf5899d365cf5c47fecef8e7faffbb33
Author: doctor9trio <ravibishnoi2110@gmail.com>
Date:   Thu Mar 16 14:44:19 2023 +0530

    Deleting file2.txt

diff --git a/file1.txt b/file1.txt
index 2f6edc6..72ccf18 100644
--- a/file1.txt
+++ b/file1.txt
@@ -2,3 +2,4 @@ Ravi Bishnoi
 major
 Restaurant:- Hotel Flower Inn
 Movie:- Nevermore
+color:- Grey
diff --git a/file2.txt b/file2.txt
deleted file mode 100644
index 77a3b00..0000000
--- a/file2.txt
+++ /dev/null
@@ -1 +0,0 @@
-2025 JPMC

commit 6aa3c8d998891f673be89869555c805f97aa9916
Author: doctor9trio <ravibishnoi2110@gmail.com>
Date:   Thu Mar 16 14:38:33 2023 +0530

    Graduation year and Job

diff --git a/file2.txt b/file2.txt
new file mode 100644
index 0000000..77a3b00
--- /dev/null
+++ b/file2.txt
@@ -0,0 +1 @@
+2025 JPMC

commit 10ca96527db3edb189ed39c2653ed21e4b4e1d1f
Author: doctor9trio <ravibishnoi2110@gmail.com>
Date:   Thu Mar 16 14:28:42 2023 +0530
:...skipping...
```

```
commit a2ff57399486cfc9244358d569fd81005dbc885a (HEAD -> master)
Author: doctor9trio <ravibishnoi2110@gmail.com>
Date:    Thu Mar 16 14:50:53 2023 +0530

    Re-adding file2.txt

diff --git a/file2.txt b/file2.txt
new file mode 100644
index 0000000..77a3b00
--- /dev/null
+++ b/file2.txt
@@ -0,0 +1 @@
+2025 JPMC

commit 40da13a6cf5899d365cf5c47fecef8e7faffbb33
Author: doctor9trio <ravibishnoi2110@gmail.com>
Date:    Thu Mar 16 14:44:19 2023 +0530

    Deleting file2.txt

diff --git a/file1.txt b/file1.txt
index 2f6edc6..72ccf18 100644
--- a/file1.txt
+++ b/file1.txt
@@ -2,3 +2,4 @@ Ravi Bishnoi
 major
 Restaurant:- Hotel Flower Inn
 Movie:- Nevermore
+color:- Grey
diff --git a/file2.txt b/file2.txt
deleted file mode 100644
index 77a3b00..0000000
--- a/file2.txt
+++ /dev/null
@@ -1 +0,0 @@
-2025 JPMC

commit 6aa3c8d998891f673be89869555c805f97aa9916
Author: doctor9trio <ravibishnoi2110@gmail.com>
Date:    Thu Mar 16 14:38:33 2023 +0530

    Graduation year and Job

diff --git a/file2.txt b/file2.txt
new file mode 100644
index 0000000..77a3b00
--- /dev/null
+++ b/file2.txt
@@ -0,0 +1 @@
+2025 JPMC

commit 10ca96527db3edb189ed39c2653ed21e4b4e1d1f
Author: doctor9trio <ravibishnoi2110@gmail.com>
Date:    Thu Mar 16 14:28:42 2023 +0530

    Added favorite restaurant and movie

diff --git a/file1.txt b/file1.txt
:
```

Question 34 and 35 :-

```
dr9trio@dr9trio-HP-Pavilion-Gaming-Laptop-15-ec2xxx:~/Inf43Hw2$ git log -p>git_log_partB.txt
dr9trio@dr9trio-HP-Pavilion-Gaming-Laptop-15-ec2xxx:~/Inf43Hw2$ cat git_log_partB.txt
commit a2ff57399486cfc9244358d569fd81005dbc885a
Author: doctor9trio <ravibishnoi2110@gmail.com>
Date:   Thu Mar 16 14:50:53 2023 +0530

    Re-adding file2.txt

diff --git a/file2.txt b/file2.txt
new file mode 100644
index 0000000..77a3b00
--- /dev/null
+++ b/file2.txt
@@ -0,0 +1 @@
+2025 JPMC

commit 40da13a6cf5899d365cf5c47fecef8e7faffbb33
Author: doctor9trio <ravibishnoi2110@gmail.com>
Date:   Thu Mar 16 14:44:19 2023 +0530

    Deleting file2.txt

diff --git a/file1.txt b/file1.txt
index 2f6edc6..72ccf18 100644
--- a/file1.txt
+++ b/file1.txt
@@ -2,3 +2,4 @@ Ravi Bishnoi
 major
 Restaurant:- Hotel Flower Inn
 Movie:- Nevermore
+color:- Grey
diff --git a/file2.txt b/file2.txt
deleted file mode 100644
index 77a3b00..0000000
--- a/file2.txt
+++ /dev/null
@@ -1 +0,0 @@
-2025 JPMC

commit 6aa3c8d998891f673be89869555c805f97aa9916
Author: doctor9trio <ravibishnoi2110@gmail.com>
Date:   Thu Mar 16 14:38:33 2023 +0530

    Graduation year and Job

diff --git a/file2.txt b/file2.txt
new file mode 100644
index 0000000..77a3b00
--- /dev/null
+++ b/file2.txt
@@ -0,0 +1 @@
+2025 JPMC

commit 10ca96527db3edb189ed39c2653ed21e4b4e1d1f
Author: doctor9trio <ravibishnoi2110@gmail.com>
```