```
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OST Lab 5 (Session 3)

Q1)

$ vi HelloWorld.c
$cat HelloWorld.c
#include<stdio.h>
int main(){
    int n;
    printf("\nEnter a number : ");
    scanf("%d", &n);
    printf("\nYour number was : %d", n);
    return 0;
```

\$ git init

```
student@dslab: ~/Desktop/ostlab3/gitstuff
                                                                   File Edit View Search Terminal Help
student@dslab:~/Desktop/ostlab3$ mkdir gitstuff
student@dslab:~/Desktop/ostlab3$ cd gitstuff
student@dslab:~/Desktop/ostlab3/gitstuff$ touch HelloWorld.c
student@dslab:~/Desktop/ostlab3/gitstuff$ vi HelloWorld.c
student@dslab:~/Desktop/ostlab3/gitstuff$ cat HelloWorld.c
#include<stdio.h>
int main(){
        int n;
        printf("\nEnter a number : ");
        scanf("%d",&n);
        printf("\nYour number was : %d",n);
student@dslab:~/Desktop/ostlab3/gitstuff$ git init
Initialized empty Git repository in /home/student/Desktop/ostlab3/gits
tuff/.git/
student@dslab:~/Desktop/ostlab3/gitstuff$
```

Q2)

```
$ git config user.email "aiqqia.ag@gmail.com"
$ git config user.name "aiqqia"
$ git status
$ git add HelloWorld.c
$ git commit -m "Initial Commit"
```

```
student@dslab: ~/Desktop/ostlab3/gitstuff
                                                                            File Edit View Search Terminal Help
student@dslab:~/Desktop/ostlab3/gitstuffS git config user.email "aiggia.ag@gmail
student@dslab:~/Desktop/ostlab3/gitstuff$ git config user.name "aiqqia"
student@dslab:~/Desktop/ostlab3/gitstuff$ git status
On branch master
No commits vet
Untracked files:
  (use "git add <file>..." to include in what will be committed)
nothing added to commit but untracked files present (use "git add" to track)
student@dslab:~/Desktop/ostlab3/gitstuff$ git add HelloWorld.c
student@dslab:~/Desktop/ostlab3/gitstuff$ git commit -m "Initial Commit"
[master (root-commit) 0142464] Initial Commit
1 file changed, 9 insertions(+)
create mode 100644 HelloWorld.c
student@dslab:~/Desktop/ostlab3/gitstuff$
```

Q3)

\$ vi HelloWorld.c \$ git diff

```
student@dslab: ~/Desktop/ostlab3/gitstuff
File Edit View Search Terminal Help
student@dslab:~/Desktop/ostlab3/gitstuff$ git add HelloWorld.c
student@dslab:~/Desktop/ostlab3/gitstuff$ git commit -m "Initial Commit"
[master (root-commit) 0142464] Initial Commit
1 file changed, 9 insertions(+)
create mode 100644 HelloWorld.c
student@dslab:~/Desktop/ostlab3/gitstuff$ vi HelloWorld.c
student@dslab:~/Desktop/ostlab3/gitstuff$ git diff
diff --git a/HelloWorld.c b/HelloWorld.c
index 2c96d1f..45edd05 100644
--- a/HelloWorld.c
+++ b/HelloWorld.c
@@ -4,6 +4,7 @@ int main(){
        int n;
        printf("\nEnter a number : ");
        scanf("%d",&n);
        n+=1;
        printf("\nYour number was : %d",n);
 }
student@dslab:~/Desktop/ostlab3/gitstuffS
```

```
$ git add HelloWorld.c
$ git commit -m "Second Commit"
$ git log
```

```
student@dslab: ~/Desktop/ostlab3/gitstuff
                                                                    File Edit View Search Terminal Help
       printf("\nYour number was : %d".n);
}
student@dslab:~/Desktop/ostlab3/gitstuff$ git add HelloWorld.c
[master ae5936a] Second Commit
1 file changed, 1 insertion(+)
student@dslab:~/Desktop/ostlab3/gitstuff$ git log
commit ae5936a788b9ce774b5a4a0e8c2d1612dec929d2 (HEAD -> master)
Author: aiqqia <aiqqia.ag@gmail.com>
Date:
       Mon Feb 15 13:54:33 2021 +0530
   Second Commit
commit 014246485fa9b02ed9ca4bae04db283cdb358e09
Author: aiqqia <aiqqia.ag@gmail.com>
Date:
       Mon Feb 15 13:50:11 2021 +0530
   Initial Commit
student@dslab:~/Desktop/ostlab3/gitstuff$
```

Q5)
\$ vi HelloWorld.c
\$ git status
\$ git checkout --HelloWorld.c
\$ git status

```
student@dslab: ~/Desktop/ostlab3/gitstuff
                                                                            File Edit View Search Terminal Help
commit 014246485fa9b02ed9ca4bae04db283cdb358e09
Author: aiqqia <aiqqia.ag@gmail.com>
       Mon Feb 15 13:50:11 2021 +0530
Date:
   Initial Commit
student@dslab:~/Desktop/ostlab3/gitstuff$ vi HelloWorld.c
student@dslab:~/Desktop/ostlab3/gitstuff$ git status
On branch master
Changes not staged for commit:
 (use "git add <file>..." to update what will be committed)
 (use "git checkout -- <file>..." to discard changes in working directory)
no changes added to commit (use "git add" and/or "git commit -a")
student@dslab:~/Desktop/ostlab3/gitstuff$ git checkout -- HelloWorld.c
student@dslab:~/Desktop/ostlab3/gitstuff$ git status
On branch master
nothing to commit, working tree clean
student@dslab:~/Desktop/ostlab3/gitstuff$
```

\$ git log \$ git show 014246485fa9b02ed9ca4bae04db283cdb358e09

END OF LAB5