

# OST LAB

## Week 5

Udeet Mittal

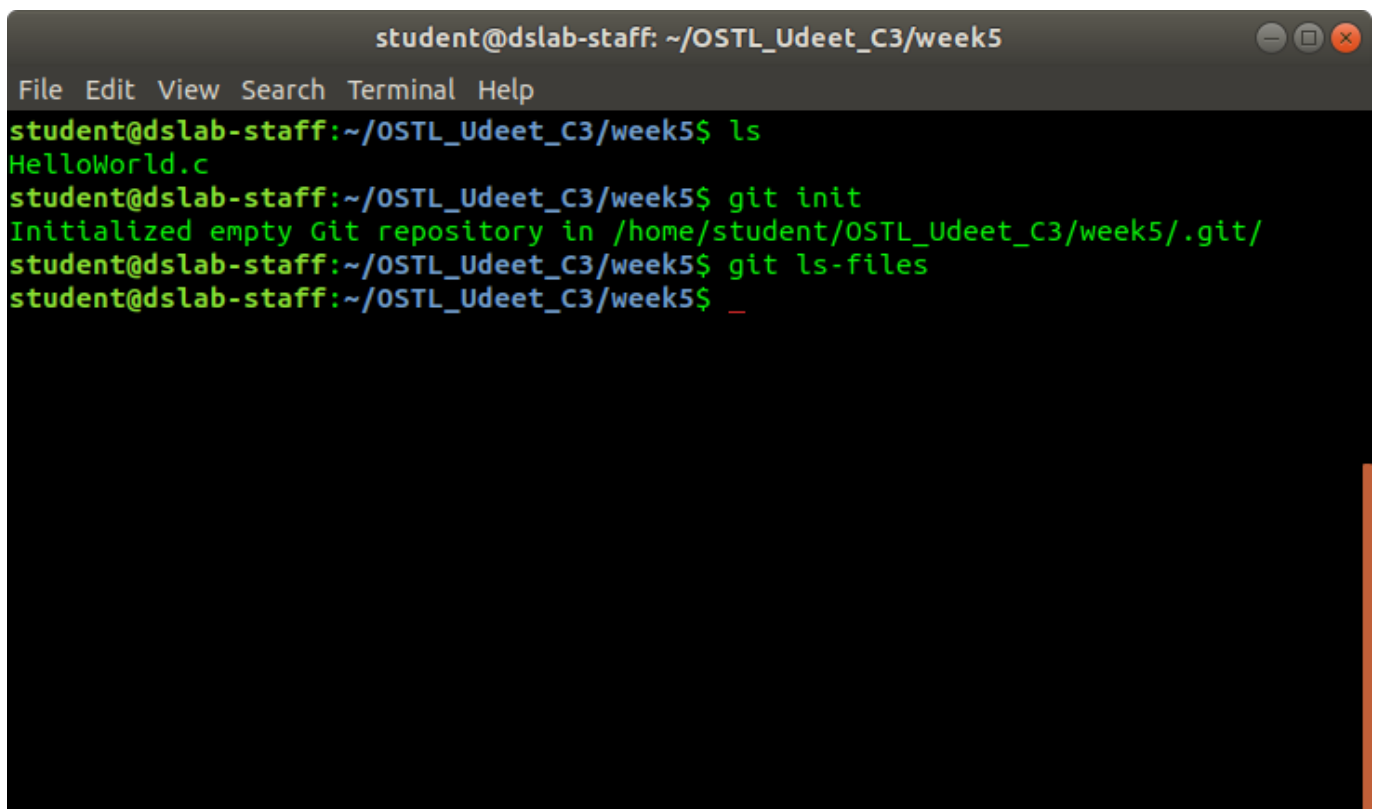
CSE C3

Roll Number 64

1.

**filename: HelloWorld.c**

```
#include <stdio.h>
int main()
{
    int n;
    printf("Enter a number:");
    scanf("%d",&n);
    printf("The entered number is: %d",n);
    return 0;
}
```

A terminal window titled 'student@dslab-staff: ~/OSTL\_Udeet\_C3/week5' with standard window controls. The terminal shows the following commands and output:

```
File Edit View Search Terminal Help
student@dslab-staff:~/OSTL_Udeet_C3/week5$ ls
HelloWorld.c
student@dslab-staff:~/OSTL_Udeet_C3/week5$ git init
Initialized empty Git repository in /home/student/OSTL_Udeet_C3/week5/.git/
student@dslab-staff:~/OSTL_Udeet_C3/week5$ git ls-files
student@dslab-staff:~/OSTL_Udeet_C3/week5$ _
```

2.

```
student@dslab-staff: ~/OSTL_Udeet_C3/week5
File Edit View Search Terminal Help
student@dslab-staff:~/OSTL_Udeet_C3/week5$ git config user.email "udeet1575@gmail.com"
student@dslab-staff:~/OSTL_Udeet_C3/week5$ git config user.name "Udeet Mittal"
student@dslab-staff:~/OSTL_Udeet_C3/week5$ git status
On branch master

No commits yet

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

        HelloWorld.c
        a.out

nothing added to commit but untracked files present (use "git add" to track)
student@dslab-staff:~/OSTL_Udeet_C3/week5$ git add HelloWorld.c
student@dslab-staff:~/OSTL_Udeet_C3/week5$ git commit -m "initial commit"
[master (root-commit) 3adcfb5] initial commit
 1 file changed, 9 insertions(+)
 create mode 100644 HelloWorld.c
student@dslab-staff:~/OSTL_Udeet_C3/week5$ _
```

3.

**filename: HelloWorld.c**

```
#include <stdio.h>
int main()
{
    int n;
    printf("Enter a number:");
    scanf("%d",&n);
    printf("The new number is: %d",n+1);
    return 0;
}
```

```
student@dslab-staff: ~/OSTL_Udeet_C3/week5
File Edit View Search Terminal Help
student@dslab-staff:~/OSTL_Udeet_C3/week5$ nano HelloWorld.c
student@dslab-staff:~/OSTL_Udeet_C3/week5$ git diff
diff --git a/HelloWorld.c b/HelloWorld.c
index df3bdf0..0e233aa 100644
--- a/HelloWorld.c
+++ b/HelloWorld.c
@@ -4,6 +4,6 @@ int main()
    int n;
    printf("Enter a number:");
    scanf("%d",&n);
-printf("The entered number is: %d",n);
+printf("The new number is: %d",n+1);
    return 0;
}
student@dslab-staff:~/OSTL_Udeet_C3/week5$ _
```

4.

```
student@dslab-staff: ~/OSTL_Udeet_C3/week5
File Edit View Search Terminal Help
student@dslab-staff:~/OSTL_Udeet_C3/week5$ git add HelloWorld.c
student@dslab-staff:~/OSTL_Udeet_C3/week5$ git commit -m "second commit"
[master 4f22e48] second commit
1 file changed, 1 insertion(+), 1 deletion(-)
student@dslab-staff:~/OSTL_Udeet_C3/week5$ git log
commit 4f22e48601afa94123918ad5ba3de64328b1c2fd (HEAD -> master)
Author: Udeet Mittal <udeet1575@gmail.com>
Date: Thu Dec 9 16:17:45 2021 +0530

    second commit

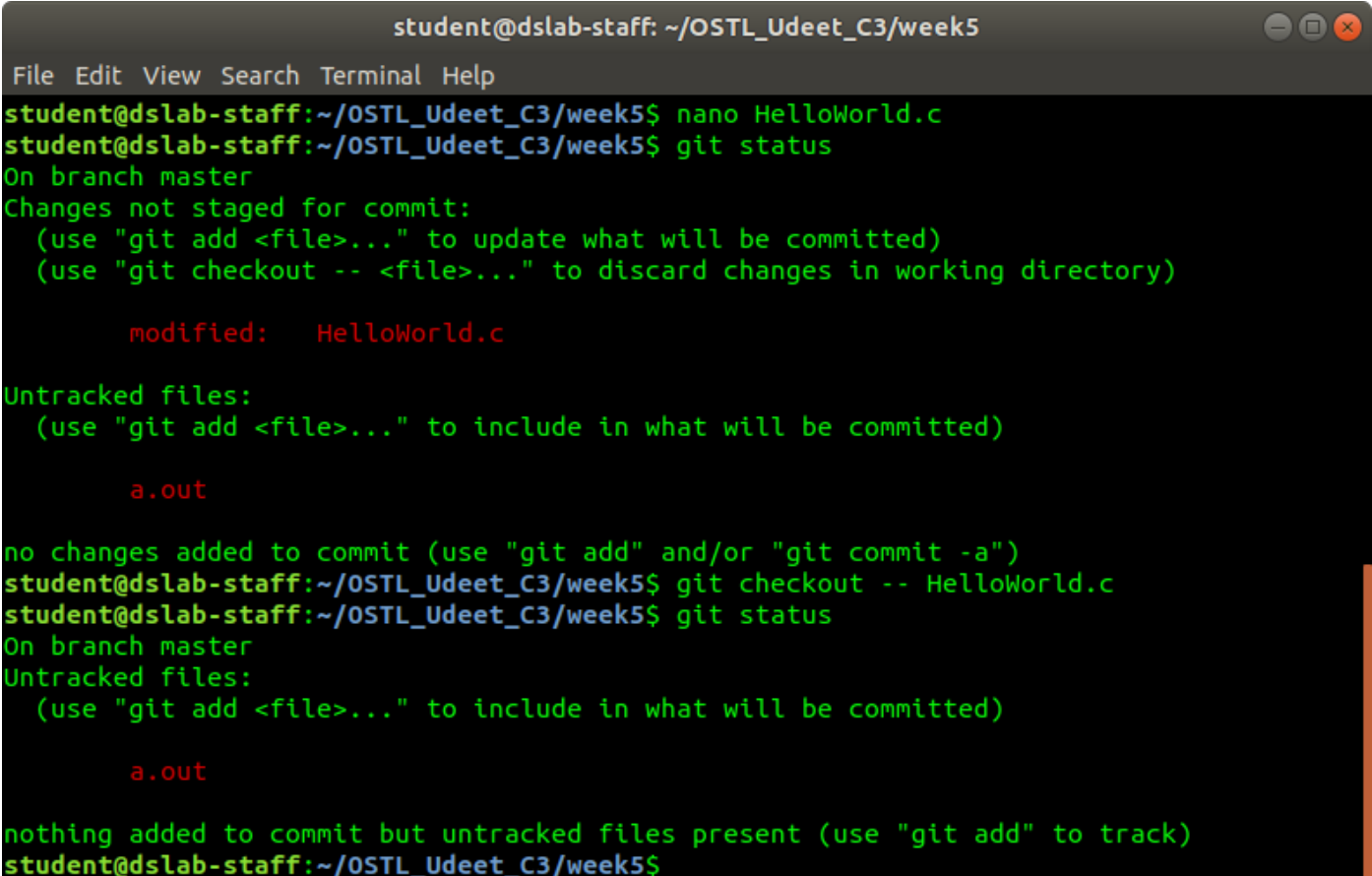
commit 3adcfb58905eb32aad2642f9971f22398e3d03f0
Author: Udeet Mittal <udeet1575@gmail.com>
Date: Thu Dec 9 16:12:24 2021 +0530

    initial commit
student@dslab-staff:~/OSTL_Udeet_C3/week5$ _
```

5.

**filename: HelloWorld.c**

```
#include <stdio.h>
int main()
{
    int n;
    printf("Enter a number:");
    scanf("%d",&n);
    printf("The new number is: %d",n+2);
    return 0;
}
```

A terminal window titled 'student@dslab-staff: ~/OSTL\_Udeet\_C3/week5' with a menu bar (File, Edit, View, Search, Terminal, Help). The terminal shows the following sequence of commands and outputs:  
1. `nano HelloWorld.c`  
2. `git status`  
Output: '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)', 'modified: HelloWorld.c'.  
3. `git checkout -- HelloWorld.c`  
4. `git status`  
Output: 'On branch master', 'Untracked files:', '(use "git add <file>..." to include in what will be committed)', 'a.out'.  
5. `git status`  
Output: 'nothing added to commit but untracked files present (use "git add" to track)'.  
The prompt ends with an underscore character.

```
student@dslab-staff: ~/OSTL_Udeet_C3/week5
File Edit View Search Terminal Help
student@dslab-staff:~/OSTL_Udeet_C3/week5$ nano HelloWorld.c
student@dslab-staff:~/OSTL_Udeet_C3/week5$ 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)

        modified:   HelloWorld.c

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

        a.out

no changes added to commit (use "git add" and/or "git commit -a")
student@dslab-staff:~/OSTL_Udeet_C3/week5$ git checkout -- HelloWorld.c
student@dslab-staff:~/OSTL_Udeet_C3/week5$ git status
On branch master
Untracked files:
  (use "git add <file>..." to include in what will be committed)

        a.out

nothing added to commit but untracked files present (use "git add" to track)
student@dslab-staff:~/OSTL_Udeet_C3/week5$ _
```

6.

```
student@dslab-staff: ~/OSTL_Udeet_C3/week5
File Edit View Search Terminal Help

student@dslab-staff:~/OSTL_Udeet_C3/week5$ git log
commit 4f22e48601afa94123918ad5ba3de64328b1c2fd (HEAD -> master)
Author: Udeet Mittal <udeet1575@gmail.com>
Date: Thu Dec 9 16:17:45 2021 +0530

    second commit

commit 3adcfb58905eb32aad2642f9971f22398e3d03f0
Author: Udeet Mittal <udeet1575@gmail.com>
Date: Thu Dec 9 16:12:24 2021 +0530

    initial commit
student@dslab-staff:~/OSTL_Udeet_C3/week5$ git show
commit 4f22e48601afa94123918ad5ba3de64328b1c2fd (HEAD -> master)
Author: Udeet Mittal <udeet1575@gmail.com>
Date: Thu Dec 9 16:17:45 2021 +0530

    second commit

diff --git a/HelloWorld.c b/HelloWorld.c
index df3bdf0..0e233aa 100644
--- a/HelloWorld.c
+++ b/HelloWorld.c
@@ -4,6 +4,6 @@ int main()
    int n;
    printf("Enter a number:");
    scanf("%d",&n);
-printf("The entered number is: %d",n);
+printf("The new number is: %d",n+1);
    return 0;
}
student@dslab-staff:~/OSTL_Udeet_C3/week5$ _
```