# LAB – 5

**EXERCISES :**

    **1) , 2)**

```
manojmmallya@MMMpersonal:/mnt/d/manoj MIT/3rd sem/OST/lab5$ touch HelloWorld.c
manojmmallya@MMMpersonal:/mnt/d/manoj MIT/3rd sem/OST/lab5$ vi HelloWorld.c
manojmmallya@MMMpersonal:/mnt/d/manoj MIT/3rd sem/OST/lab5$ 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;
}manojmmallya@MMMpersonal:/mnt/d/manoj MIT/3rd sem/OST/lab5$ git init
Initialized empty Git repository in /mnt/d/manoj MIT/3rd sem/OST/lab5/.git/
manojmmallya@MMMpersonal:/mnt/d/manoj MIT/3rd sem/OST/lab5$ git status
On branch master

No commits yet

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

nothing added to commit but untracked files present (use "git add" to track)
```

**2) Continued…**

```
manojmmallya@MMMpersonal:/mnt/d/manoj MIT/3rd sem/OST/lab5$ git config user.email "HariniDas@gmail.com"
manojmmallya@MMMpersonal:/mnt/d/manoj MIT/3rd sem/OST/lab5$ git config user.name "harini"
manojmmallya@MMMpersonal:/mnt/d/manoj MIT/3rd sem/OST/lab5$ git add HelloWorld.c
manojmmallya@MMMpersonal:/mnt/d/manoj MIT/3rd sem/OST/lab5$ git commit -m "First Commit"
[master (root-commit) a192f46] First Commit
 1 file changed, 8 insertions(+)
 create mode 100644 HelloWorld.c
```

**3)**

```
manojmmallya@MMMpersonal:/mnt/d/manoj MIT/3rd sem/OST/lab5$ vi HelloWorld.c
manojmmallya@MMMpersonal:/mnt/d/manoj MIT/3rd sem/OST/lab5$ git diff
diff --git a/HelloWorld.c b/HelloWorld.c
index b1b18a8..f6281c1 100644
--- a/HelloWorld.c
+++ b/HelloWorld.c
@@ -3,6 +3,7 @@ int main(){
 int n;
 printf("\nEnter a number : ");
 scanf("%d", &n);
+n=n+1;^M
 printf("\nYour number was : %d", n);
 return 0;
-}
\ No newline at end of file
+}^M
```

**4)**

```
manojmmallya@MMMpersonal:/mnt/d/manoj MIT/3rd sem/OST/lab5$ vi HelloWorld.c
manojmmallya@MMMpersonal:/mnt/d/manoj MIT/3rd sem/OST/lab5$ git add HelloWorld.c
manojmmallya@MMMpersonal:/mnt/d/manoj MIT/3rd sem/OST/lab5$ git commit -m "Second Commit"
[master 3a1a286] Second Commit
 1 file changed, 2 insertions(+), 1 deletion(-)
manojmmallya@MMMpersonal:/mnt/d/manoj MIT/3rd sem/OST/lab5$ git log
commit 3a1a2865e48bc58b2d7931f56cf8ba01ae115050 (HEAD -> master)
Author: harini <HariniDas@gmail.com>
Date:   Mon Dec 6 20:39:17 2021 +0530

    Second Commit

commit a192f46f67ca1b3e50dfe42d03e89e0c83de3beb
Author: harini <HariniDas@gmail.com>
Date:   Mon Dec 6 20:35:58 2021 +0530

    First Commit
```

**5)**

**a)**

```
manojmmallya@MMMpersonal:/mnt/d/manoj MIT/3rd sem/OST/lab5$ vi HelloWorld.c
manojmmallya@MMMpersonal:/mnt/d/manoj MIT/3rd sem/OST/lab5$ git status
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:   HelloWorld.c

Untracked files:
  (use "git add <file>..." to include in what will be committed)
        Lab5.docx
        ~$Lab5.docx

no changes added to commit (use "git add" and/or "git commit -a")
manojmmallya@MMMpersonal:/mnt/d/manoj MIT/3rd sem/OST/lab5$ git diff
diff --git a/HelloWorld.c b/HelloWorld.c
index f6281c1..49ce090 100644
--- a/HelloWorld.c
+++ b/HelloWorld.c
@@ -3,7 +3,7 @@ int main(){
 int n;
 printf("\nEnter a number : ");
 scanf("%d", &n);
-n=n+1;
+n=n+2;^M
 printf("\nYour number was : %d", n);
 return 0;
 }
```

**b) , c)**

```
manojmmallya@MMMpersonal:/mnt/d/manoj MIT/3rd sem/OST/lab5$ git checkout -- HelloWorld.c
manojmmallya@MMMpersonal:/mnt/d/manoj MIT/3rd sem/OST/lab5$ git status
On branch master
Untracked files:
  (use "git add <file>..." to include in what will be committed)
        Lab5.docx
        ~$Lab5.docx

nothing added to commit but untracked files present (use "git add" to track)
```

**6)**

**a)**

```
manojmmallya@MMMpersonal:/mnt/d/manoj MIT/3rd sem/OST/lab5$ git log
commit 3a1a2865e48bc58b2d7931f56cf8ba01ae115050 (HEAD -> master)
Author: harini <HariniDas@gmail.com>
Date:    Mon Dec 6 20:39:17 2021 +0530

    Second Commit

commit a192f46f67ca1b3e50dfe42d03e89e0c83de3beb
Author: harini <HariniDas@gmail.com>
Date:    Mon Dec 6 20:35:58 2021 +0530

    First Commit
```

**b)**

```
manojmmallya@MMMpersonal:/mnt/d/manoj MIT/3rd sem/OST/lab5$ git show a192f46f67ca1b3e50dfe42d03e89e0c83de3beb
commit a192f46f67ca1b3e50dfe42d03e89e0c83de3beb
Author: harini <HariniDas@gmail.com>
Date:    Mon Dec 6 20:35:58 2021 +0530

    First Commit

diff --git a/HelloWorld.c b/HelloWorld.c
new file mode 100644
index 0000000..b1b18a8
--- /dev/null
+++ b/HelloWorld.c
@@ -0,0 +1,8 @@
+#include<stdio.h>^M
+int main(){^M
+int n;^M
+printf("\nEnter a number : ");^M
+scanf("%d", &n);^M
+printf("\nYour number was : %d", n);^M
+return 0;^M
+}
\ No newline at end of file
```

**********