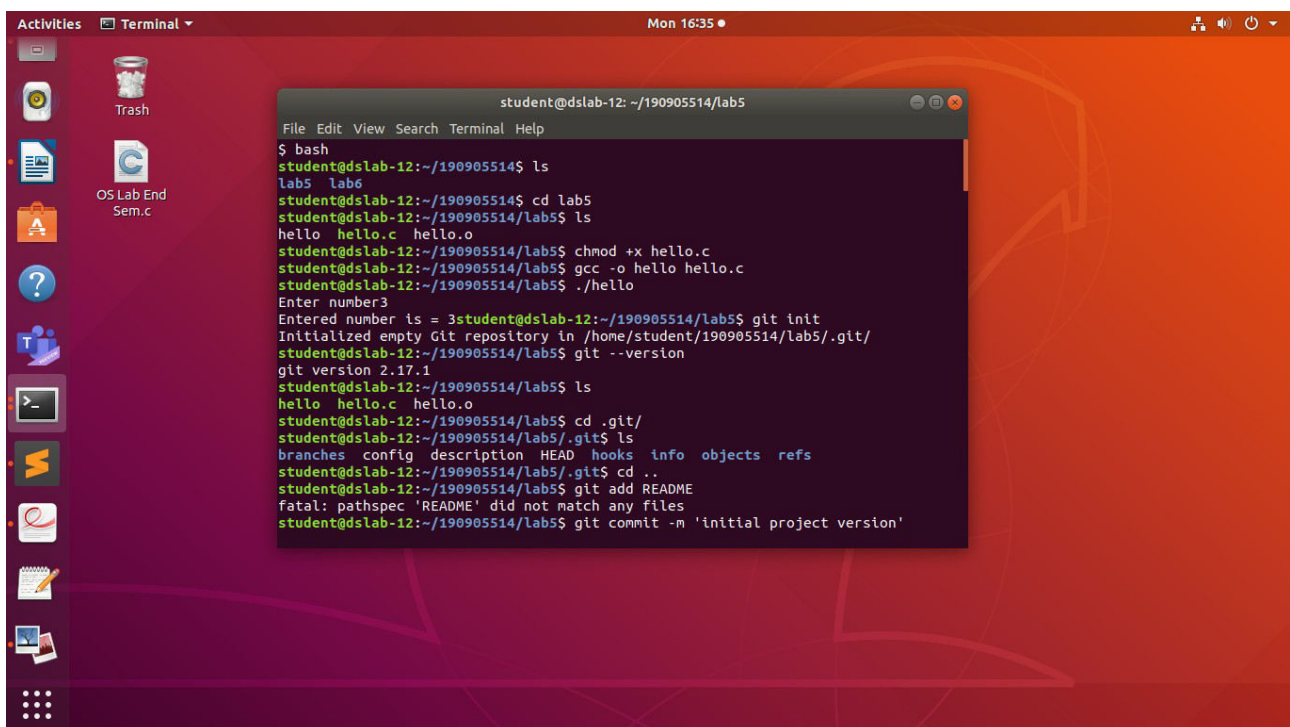


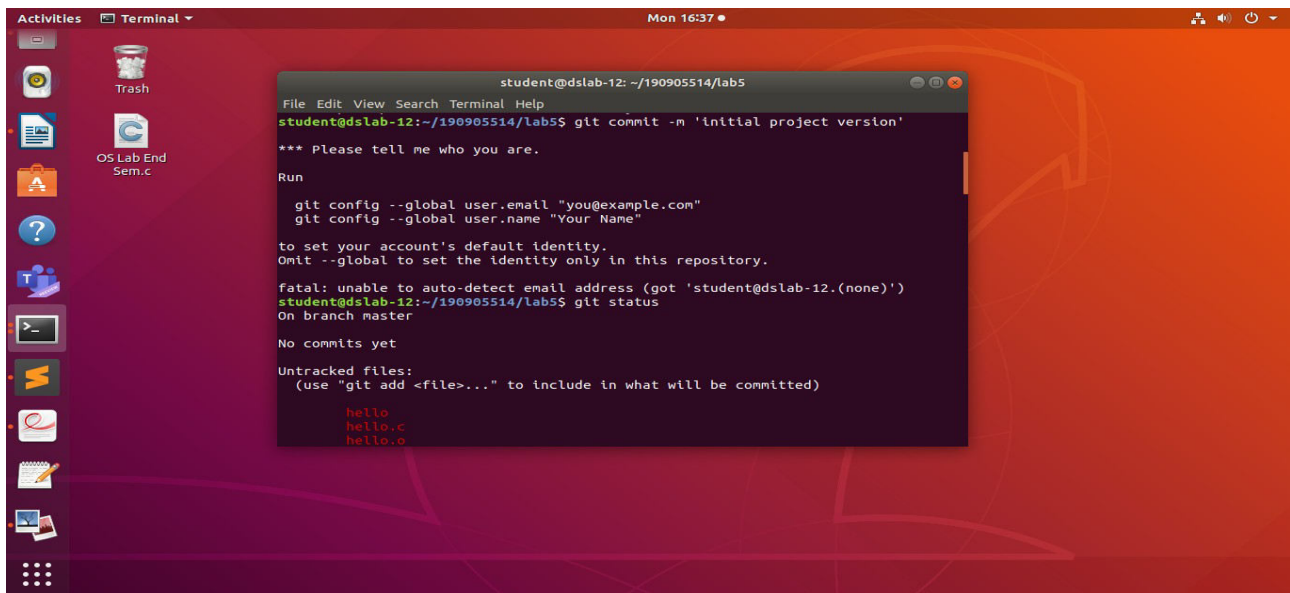
week5 lab 5**Q1.**

```
#include <stdio.h>
int main(void){
    int number;
    printf("Enter number \n");
    scanf("%d",&number);
    printf("The next number is %d\n",number );
}
```



The screenshot shows a terminal window titled 'student@ds1ab-12: ~/190905514/lab5'. The user runs a C program that prompts for a number and prints the next number. The user enters '3', and the program outputs '4'. The user then initializes a Git repository, adds a README file, and commits it with the message 'initial project version'.

```
student@ds1ab-12: ~/190905514/lab5
$ bash
student@ds1ab-12:~/190905514$ ls
lab5  lab6
student@ds1ab-12:~/190905514$ cd lab5
student@ds1ab-12:~/190905514/lab5$ ls
hello  hello.c  hello.o
student@ds1ab-12:~/190905514/lab5$ chmod +x hello.c
student@ds1ab-12:~/190905514/lab5$ gcc -o hello hello.c
student@ds1ab-12:~/190905514/lab5$ ./hello
Enter number: 3
Entered number is = 3
student@ds1ab-12:~/190905514/lab5$ git init
Initialized empty Git repository in /home/student/190905514/lab5/.git/
student@ds1ab-12:~/190905514/lab5$ git --version
git version 2.17.1
student@ds1ab-12:~/190905514/lab5$ ls
hello  hello.c  hello.o
student@ds1ab-12:~/190905514/lab5$ cd .git/
student@ds1ab-12:~/190905514/lab5/.git$ ls
branches  config  description  HEAD  hooks  info  objects  refs
student@ds1ab-12:~/190905514/lab5/.git$ cd ..
student@ds1ab-12:~/190905514/lab5$ git add README
fatal: pathspec 'README' did not match any files
student@ds1ab-12:~/190905514/lab5$ git commit -m 'initial project version'
```



A terminal window titled 'student@dslab-12: ~/190905514/lab5' is open on a Linux desktop. The terminal shows the execution of 'git commit -m 'initial project version''. It prompts for a name and email, which are not provided. It then shows 'git status' output indicating untracked files 'hello', 'hello.c', and 'hello.o'. The desktop background is orange with a purple sidebar containing icons for Trash, OS Lab End Sem.c, and other applications.

```
student@dslab-12: ~/190905514/lab5
File Edit View Search Terminal Help
student@dslab-12:~/190905514/lab5$ git commit -m 'initial project version'
*** Please tell me who you are.

Run

git config --global user.email "you@example.com"
git config --global user.name "Your Name"

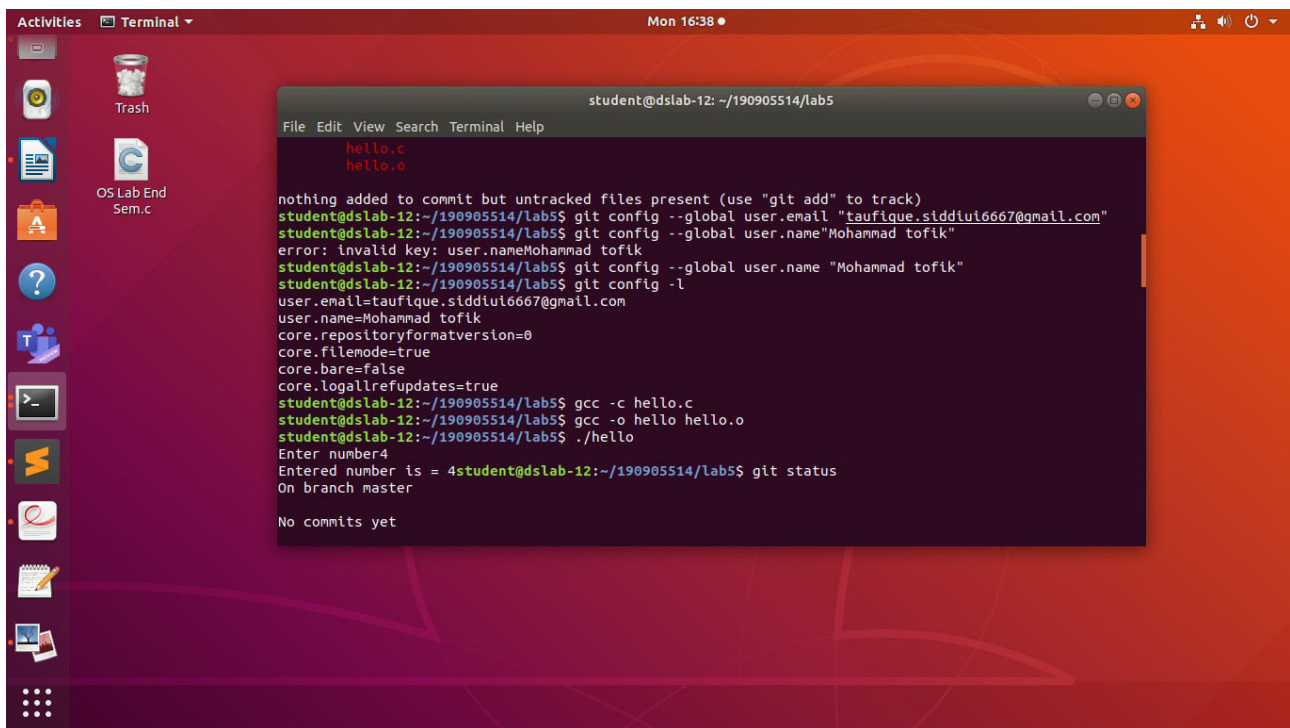
to set your account's default identity.
Omit --global to set the identity only in this repository.

fatal: unable to auto-detect email address (got 'student@dslab-12.(none)')
student@dslab-12:~/190905514/lab5$ git status
On branch master

No commits yet

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

        hello
        hello.c
        hello.o
```



A terminal window titled 'student@dslab-12: ~/190905514/lab5' is open on a Linux desktop. The terminal shows the execution of 'git config --global user.email "taufique.siddiui6667@gmail.com"', 'git config --global user.name "Mohammad tofik"', and 'git config --global user.name "Mohammad tofik"'. It then shows 'git config -l' output. The desktop background is orange with a purple sidebar containing icons for Trash, OS Lab End Sem.c, and other applications.

```
student@dslab-12: ~/190905514/lab5
File Edit View Search Terminal Help
hello.c
hello.o

nothing added to commit but untracked files present (use "git add" to track)
student@dslab-12:~/190905514/lab5$ git config --global user.email "taufique.siddiui6667@gmail.com"
student@dslab-12:~/190905514/lab5$ git config --global user.name "Mohammad tofik"
error: invalid key: user.nameMohammad tofik
student@dslab-12:~/190905514/lab5$ git config --global user.name "Mohammad tofik"
student@dslab-12:~/190905514/lab5$ git config -l
user.email=taufique.siddiui6667@gmail.com
user.name=Mohammad tofik
core.repositoryformatversion=0
core.filemode=true
core.bare=false
core.logallrefupdates=true
student@dslab-12:~/190905514/lab5$ gcc -c hello.c
student@dslab-12:~/190905514/lab5$ gcc -o hello hello.o
student@dslab-12:~/190905514/lab5$ ./hello
Enter number4
Entered number is = 4student@dslab-12:~/190905514/lab5$ git status
On branch master

No commits yet
```

Q2.

Activities Terminal Mon 16:39

student@dslab-12: ~/190905514/lab5

```
File Edit View Search Terminal Help
student@dslab-12:~/190905514/lab5$ gcc -c hello.c
student@dslab-12:~/190905514/lab5$ gcc -o hello hello.o
student@dslab-12:~/190905514/lab5$ ./hello
Enter number4
Entered number is = 4student@dslab-12:~/190905514/lab5$ git status
On branch master

No commits yet

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

        hello
        hello.c
        hello.o

nothing added to commit but untracked files present (use "git add" to track)
student@dslab-12:~/190905514/lab5$ git init
Reinitialized existing Git repository in /home/student/190905514/lab5/.git/
student@dslab-12:~/190905514/lab5$ git status
On branch master

No commits yet
```

Activities Terminal Mon 16:40

student@dslab-12: ~/190905514/lab5

```
File Edit View Search Terminal Help
student@dslab-12:~/190905514/lab5$ git init
Reinitialized existing Git repository in /home/student/190905514/lab5/.git/
student@dslab-12:~/190905514/lab5$ git status
On branch master

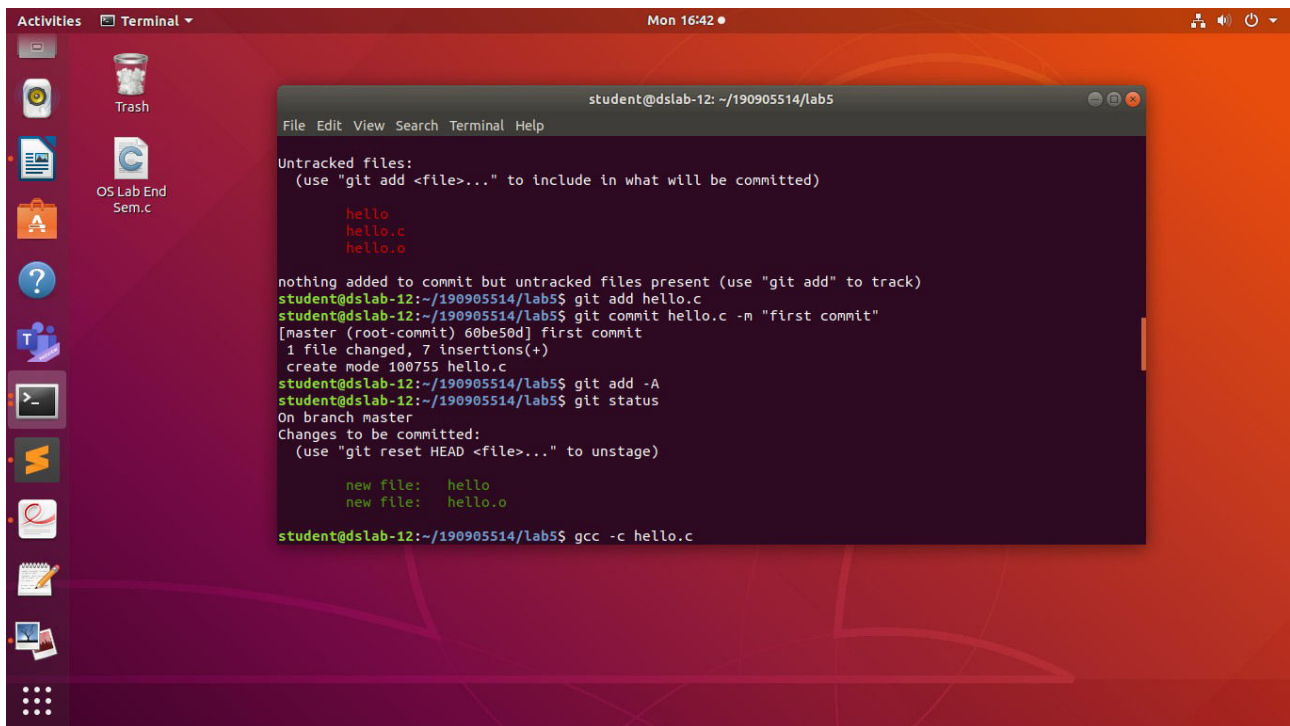
No commits yet

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

        hello
        hello.c
        hello.o

nothing added to commit but untracked files present (use "git add" to track)
student@dslab-12:~/190905514/lab5$ git add hello.c
student@dslab-12:~/190905514/lab5$ git commit hello.c -m "first commit"
[master (root-commit) 60be50d] first commit
1 file changed, 7 insertions(+)
create mode 100755 hello.c
student@dslab-12:~/190905514/lab5$ git add -A
student@dslab-12:~/190905514/lab5$ git status
On branch master

Changes to be committed:
```



Q3.

```
#include <stdio.h>
int main(void){
    int number;
    printf("Enter number \n");
    scanf("%d",&number);
    printf("The next number is %d\n",number+1 );
}
```

Activities Terminal Mon 16:43

student@dslab-12: ~/190905514/lab5

```
File Edit View Search Terminal Help
student@dslab-12:~/190905514/lab5$ ./hello
Enter number3
Entered number is = 3student@dslab-12:~/190905514/lab5$ gcc -o hello hello.c
student@dslab-12:~/190905514/lab5$ ./hello
Enter number3
Next number is = 4student@dslab-12:~/190905514/lab5$ git status
On branch master
Changes to be committed:
  (use "git reset HEAD <file>..." to unstage)

    new file:   hello
    new file:   hello.o

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:   hello
    modified:   hello.o

student@dslab-12:~/190905514/lab5$ git commit hello.c -m "new commit"
On branch master
Untracked files:
  hello
```

Activities Terminal Mon 16:43

student@dslab-12: ~/190905514/lab5

```
File Edit View Search Terminal Help
student@dslab-12:~/190905514/lab5$ git status
On branch master
Changes to be committed:
  (use "git reset HEAD <file>..." to unstage)

    new file:   hello
    new file:   hello.o

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:   hello
    modified:   hello.o

student@dslab-12:~/190905514/lab5$ git diff hello.c
student@dslab-12:~/190905514/lab5$ git diff hello.o
student@dslab-12:~/190905514/lab5$ git status
On branch master
Changes to be committed:
  (use "git reset HEAD <file>..." to unstage)

    new file:   hello
    new file:   hello.o
```


A terminal window titled 'student@dslab-12: ~/190905514/lab5' shows the following commands and output:

```
File Edit View Search Terminal Help
student@dslab-12:~/190905514/lab5$ ./hello
Enter number3
Entered number is = 3student@dslab-12:~/190905514/lab5$ gcc -o hello hello.c
student@dslab-12:~/190905514/lab5$ ./hello
Enter number3
Next number is = 4student@dslab-12:~/190905514/lab5$ git status
On branch master
Changes to be committed:
  (use "git reset HEAD <file>..." to unstage)

        new file:   hello
        new file:   hello.o

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:   hello
        modified:   hello.o

student@dslab-12:~/190905514/lab5$ git commit hello.c -m "new commit"
On branch master
Untracked files:
  hello
```

Q4.

A terminal window titled 'student@dslab-12: ~/190905514/lab5' shows the following commands and output:

```
File Edit View Search Terminal Help
  (use "git checkout -- <file>..." to discard changes in working directory)

        modified:   hello
        modified:   hello.o

student@dslab-12:~/190905514/lab5$ git log
commit 60be50d267e13cb09709e2da2a08a9079f30344a (HEAD -> master)
Author: Mohammad tofik <taufique.siddiui6667@gmail.com>
Date:   Mon Feb 15 16:14:44 2021 +0530

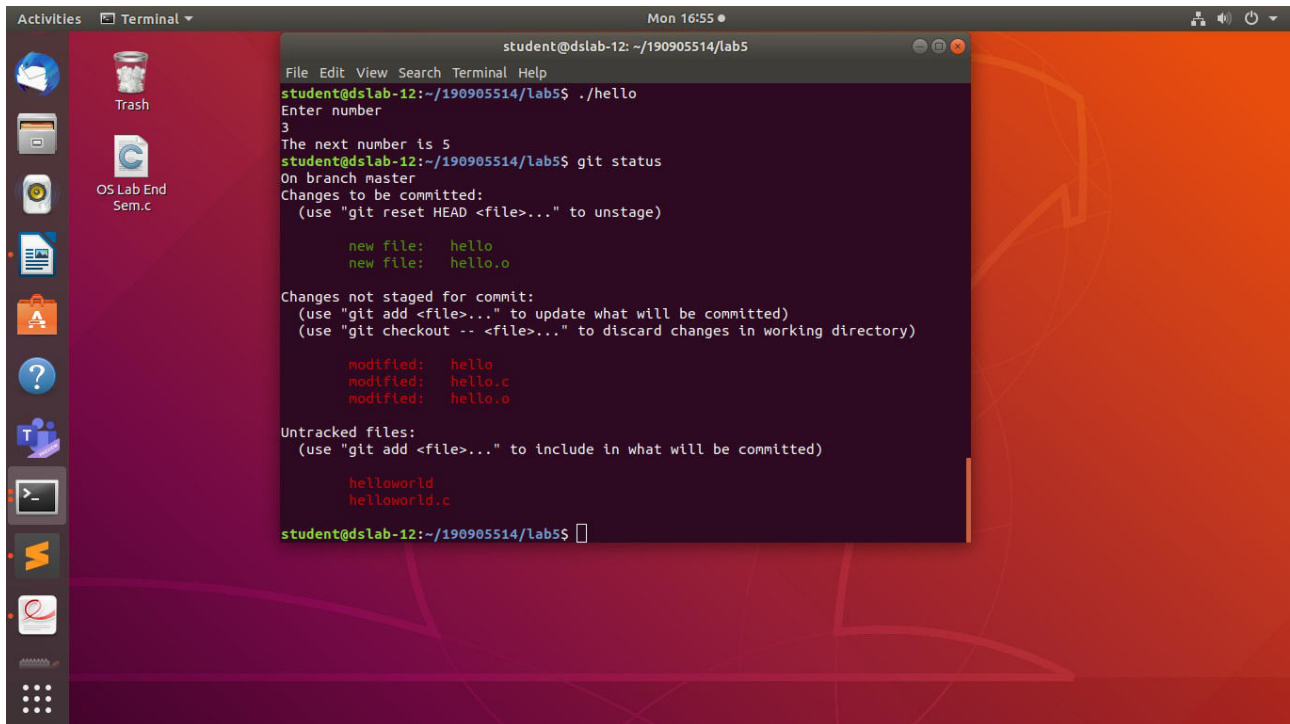
    first commit

student@dslab-12:~/190905514/lab5$ gcc -o hello.c hello
/usr/lib/gcc/x86_64-linux-gnu/7/../../../../x86_64-linux-gnu/Scrt1.o: In function `_start':
(.text+0x20): undefined reference to `main'
collect2: error: ld returned 1 exit status
student@dslab-12:~/190905514/lab5$ gcc -o hello hello.c
gcc: error: hello.c: No such file or directory
gcc: fatal error: no input files
compilation terminated.
student@dslab-12:~/190905514/lab5$ gcc -o hello hello.c
gcc: error: hello.c: No such file or directory
gcc: fatal error: no input files
compilation terminated.
student@dslab-12:~/190905514/lab5$
```

Q5.

```
#include <stdio.h>
int main(void){
```

```
int number;  
printf("Enter number \n");  
scanf("%d",&number);  
printf("The next number is %d\n",number+2 );  
}
```



The screenshot shows a terminal window titled "student@dslab-12: ~/190905514/lab5". The user has executed a C program named "hello" which prompts for a number and outputs "The next number is 5". The user then runs "git status", which shows that "hello" and "hello.o" are new files, while "hello.c" is modified. It also lists "helloworld" and "helloworld.c" as untracked files. The terminal output is as follows:

```
student@dslab-12:~/190905514/lab5$ ./hello  
Enter number  
3  
The next number is 5  
student@dslab-12:~/190905514/lab5$ git status  
On branch master  
Changes to be committed:  
  (use "git reset HEAD <file>..." to unstage)  
  
    new file:   hello  
    new file:   hello.o  
  
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:   hello  
    modified:   hello.c  
    modified:   hello.o  
  
Untracked files:  
  (use "git add <file>..." to include in what will be committed)  
  
    helloworld  
    helloworld.c  
student@dslab-12:~/190905514/lab5$
```

Q6.

Activities Terminal Mon 16:56

student@dslab-12: ~/190905514/lab5

```
File Edit View Search Terminal Help
student@dslab-12:~/190905514/lab5$ vim helloworld.c
student@dslab-12:~/190905514/lab5$ gcc -o helloworld helloworld.c
student@dslab-12:~/190905514/lab5$ gdb helloworld
GNU gdb (Ubuntu 8.1.1-0ubuntu1) 8.1.1
Copyright (C) 2018 Free Software Foundation, Inc.
License GPLv3+: GNU GPL version 3 or later <http://gnu.org/licenses/gpl.html>
This is free software: you are free to change and redistribute it.
There is NO WARRANTY, to the extent permitted by law. Type "show copying"
and "show warranty" for details.
This GDB was configured as "x86_64-linux-gnu".
Type "show configuration" for configuration details.
For bug reporting instructions, please see:
<http://www.gnu.org/software/gdb/bugs/>.
Find the GDB manual and other documentation resources online at:
<http://www.gnu.org/software/gdb/documentation/>.
For help, type "help".
Type "apropos word" to search for commands related to "word"...
Reading symbols from helloworld...(no debugging symbols found)...done.
(gdb) quit
student@dslab-12:~/190905514/lab5$ vim hello.c
student@dslab-12:~/190905514/lab5$ gcc -o hello hello.c
student@dslab-12:~/190905514/lab5$ ./hello
Enter number
3
The next number is 5
student@dslab-12:~/190905514/lab5$ git status
On branch master
```

Activities Terminal Mon 16:57

student@dslab-12: ~/190905514/lab5

```
File Edit View Search Terminal Help
student@dslab-12:~/190905514/lab5$ git log
commit 60be50d267e13cb09709e2da2a08a9079f30344a (HEAD -> master)
Author: Mohammad tofik <taufique.siddiui6667@gmail.com>
Date: Mon Feb 15 16:14:44 2021 +0530

    first commit
student@dslab-12:~/190905514/lab5$
```