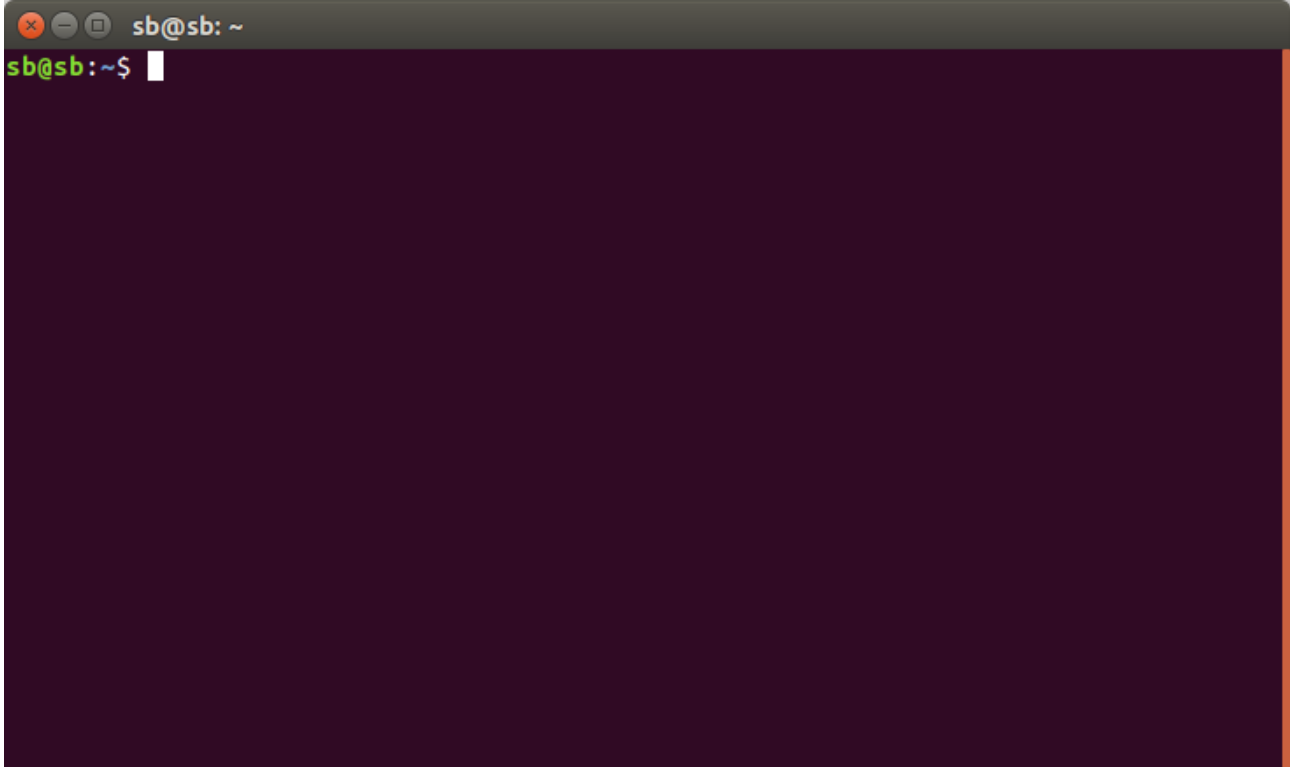


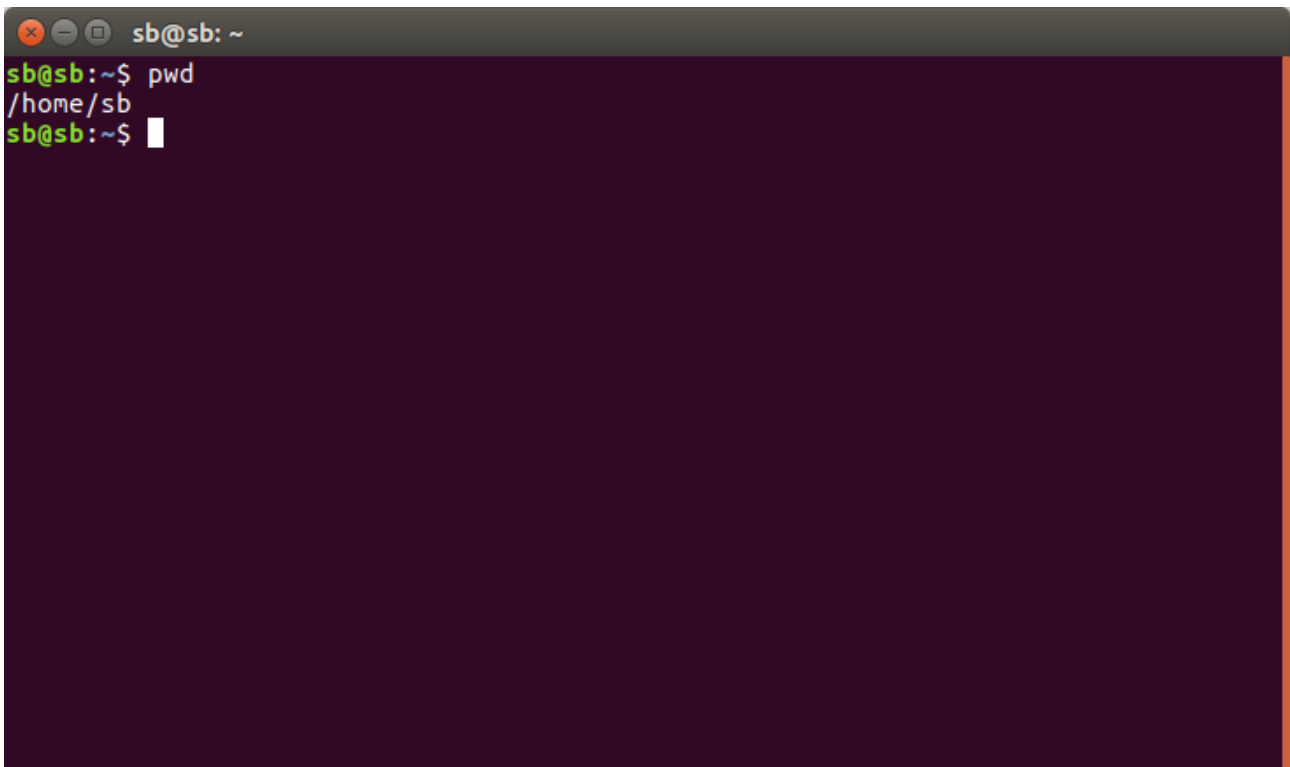
# Getting Started with C on Ubuntu

1. Login to the Ubuntu desktop with the assigned password.
2. Press Ctrl + Alt + T to open the Terminal.

A screenshot of a terminal window with a dark purple background. The title bar at the top shows window control icons and the text 'sb@sb: ~'. The terminal content shows a green prompt 'sb@sb:~\$' followed by a white cursor. The rest of the terminal is empty.

```
sb@sb: ~  
sb@sb:~$
```

3. Type pwd to view the present working directory.

A screenshot of a terminal window with a dark purple background. The title bar at the top shows window control icons and the text 'sb@sb: ~'. The terminal content shows a green prompt 'sb@sb:~\$' followed by the command 'pwd'. The next line shows the output '/home/sb'. The prompt 'sb@sb:~\$' is shown again with a white cursor.

```
sb@sb: ~  
sb@sb:~$ pwd  
/home/sb  
sb@sb:~$
```

4. Type ls to view the list of files and directories.

```
sb@sb: ~  
sb@sb:~$ pwd  
/home/sb  
sb@sb:~$ ls  
Desktop      Downloads  examples.desktop  Pictures  python  Templates  
Documents    Dropbox    Music              Public    snap     Videos  
sb@sb:~$
```

5. Create a directory with the mkdir command.

```
sb@sb: ~  
sb@sb:~$ pwd  
/home/sb  
sb@sb:~$ ls  
Desktop      Downloads  examples.desktop  Pictures  python  Templates  
Documents    Dropbox    Music              Public    snap     Videos  
sb@sb:~$ mkdir saprativa  
sb@sb:~$
```

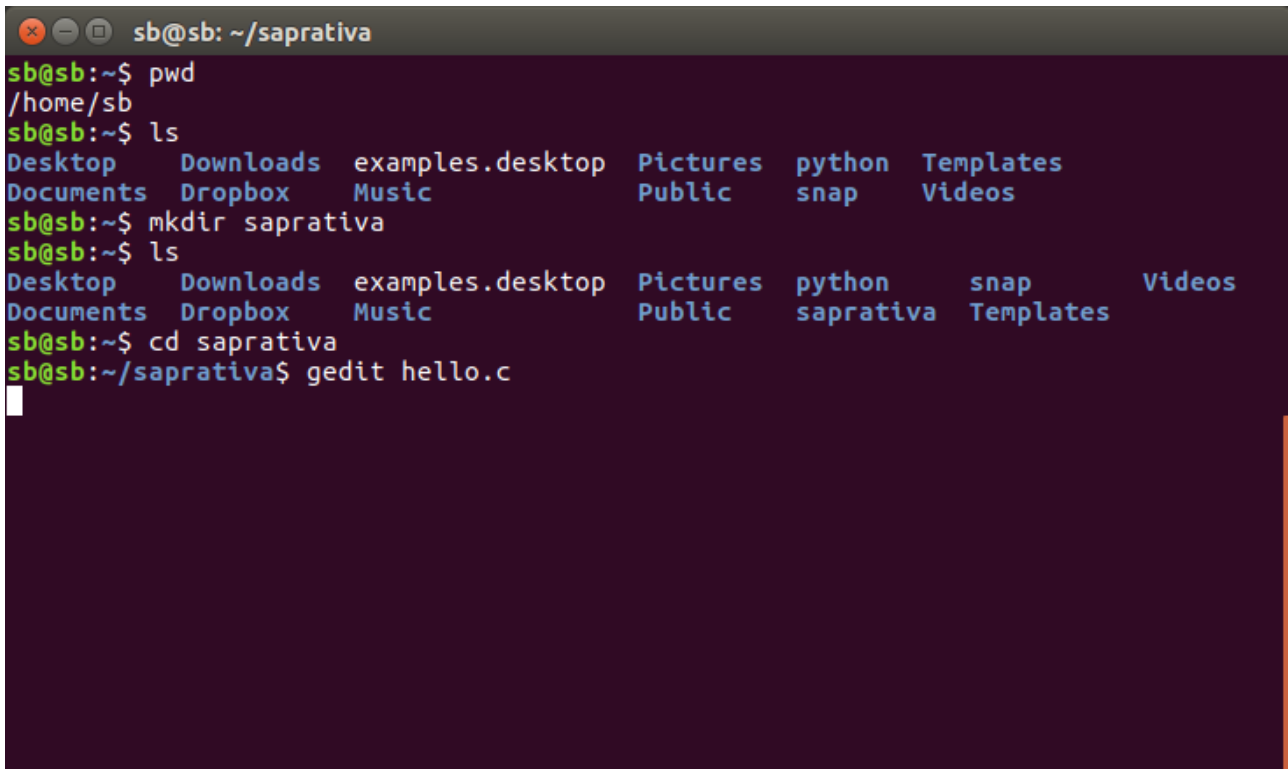
6. Typing ls once more will show the newly created directory in the list.

```
sb@sb: ~  
sb@sb:~$ pwd  
/home/sb  
sb@sb:~$ ls  
Desktop    Downloads  examples.desktop  Pictures  python  Templates  
Documents  Dropbox    Music             Public    snap     Videos  
sb@sb:~$ mkdir saprativa  
sb@sb:~$ ls  
Desktop    Downloads  examples.desktop  Pictures  python  snap  Videos  
Documents  Dropbox    Music             Public    saprativa  Templates  
sb@sb:~$
```

7. Use the cd command to go inside the new directory.

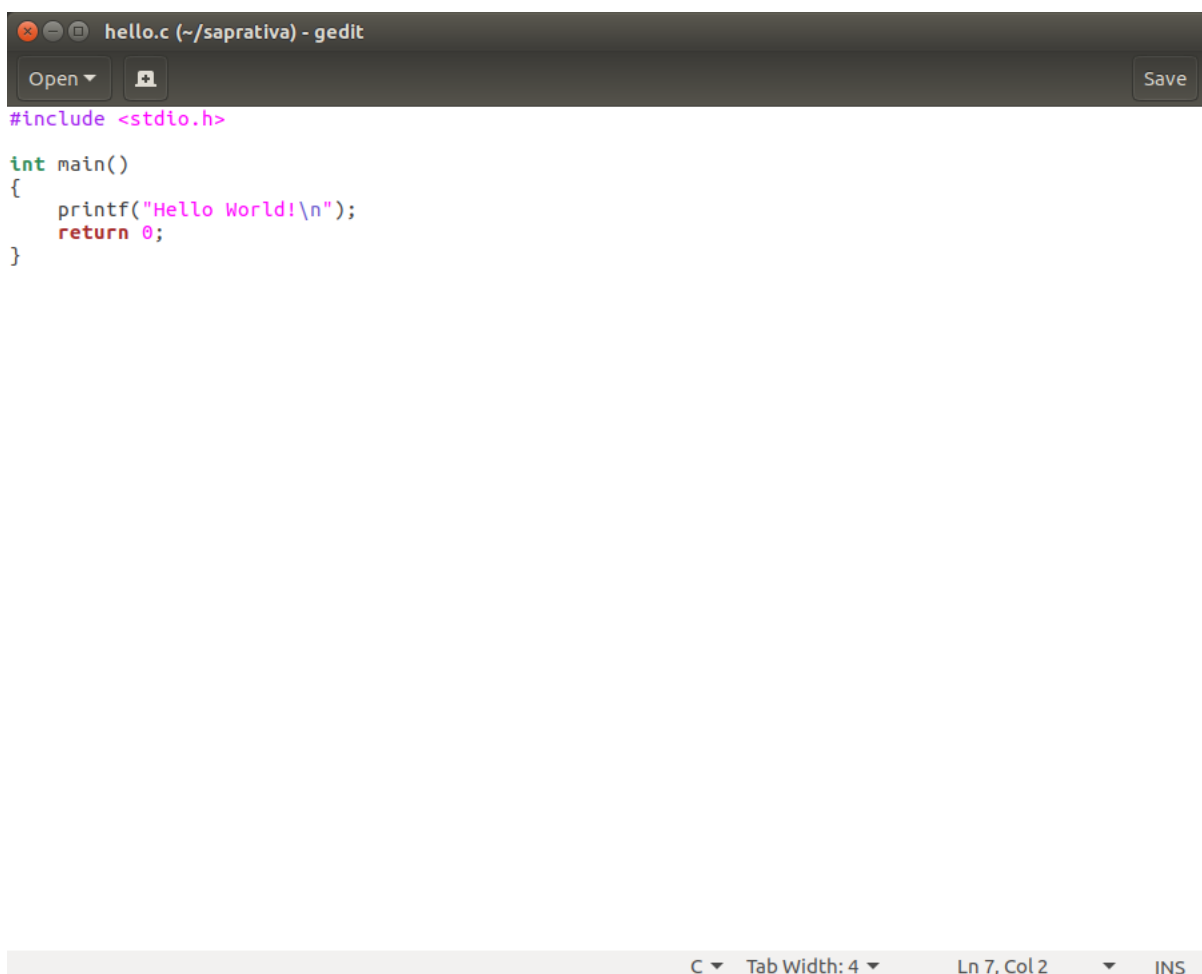
```
sb@sb: ~/saprativa  
sb@sb:~$ pwd  
/home/sb  
sb@sb:~$ ls  
Desktop    Downloads  examples.desktop  Pictures  python  Templates  
Documents  Dropbox    Music             Public    snap     Videos  
sb@sb:~$ mkdir saprativa  
sb@sb:~$ ls  
Desktop    Downloads  examples.desktop  Pictures  python  snap  Videos  
Documents  Dropbox    Music             Public    saprativa  Templates  
sb@sb:~$ cd saprativa  
sb@sb:~/saprativa$
```

8. Use the gedit command to create the hello.c file.



```
sb@sb: ~/saprativa
sb@sb:~$ pwd
/home/sb
sb@sb:~$ ls
Desktop    Downloads  examples.desktop  Pictures  python  Templates
Documents  Dropbox    Music             Public    snap     Videos
sb@sb:~$ mkdir saprativa
sb@sb:~$ ls
Desktop    Downloads  examples.desktop  Pictures  python  snap  Templates  Videos
Documents  Dropbox    Music             Public    saprativa
sb@sb:~$ cd saprativa
sb@sb:~/saprativa$ gedit hello.c
```

9. Type the program in the editor, save and close the editor.



```
hello.c (~/.saprativa) - gedit
Open Save
#include <stdio.h>

int main()
{
    printf("Hello World!\n");
    return 0;
}
```

C Tab Width: 4 Ln 7, Col 2 INS

10. Go back to the Terminal and use gcc to compile the program.

```
sb@sb: ~/saprativa
sb@sb:~$ pwd
/home/sb
sb@sb:~$ ls
Desktop    Downloads  examples.desktop  Pictures  python  Templates
Documents  Dropbox    Music             Public    snap     Videos
sb@sb:~$ mkdir saprativa
sb@sb:~$ ls
Desktop    Downloads  examples.desktop  Pictures  python  snap  Templates  Videos
Documents  Dropbox    Music             Public    saprativa
sb@sb:~$ cd saprativa
sb@sb:~/saprativa$ gedit hello.c
sb@sb:~/saprativa$ gcc hello.c
sb@sb:~/saprativa$
```

11. With the ls command you can see that the compiler has created the a.out file.

```
sb@sb: ~/saprativa
sb@sb:~$ pwd
/home/sb
sb@sb:~$ ls
Desktop    Downloads  examples.desktop  Pictures  python  Templates
Documents  Dropbox    Music             Public    snap     Videos
sb@sb:~$ mkdir saprativa
sb@sb:~$ ls
Desktop    Downloads  examples.desktop  Pictures  python  snap  Templates  Videos
Documents  Dropbox    Music             Public    saprativa
sb@sb:~$ cd saprativa
sb@sb:~/saprativa$ gedit hello.c
sb@sb:~/saprativa$ gcc hello.c
sb@sb:~/saprativa$ ls
a.out  hello.c
sb@sb:~/saprativa$
```

12. Run the program to view the output.

```
sb@sb: ~/saprativa
sb@sb:~$ pwd
/home/sb
sb@sb:~$ ls
Desktop    Downloads  examples.desktop  Pictures  python  Templates
Documents  Dropbox    Music             Public    snap     Videos
sb@sb:~$ mkdir saprativa
sb@sb:~$ ls
Desktop    Downloads  examples.desktop  Pictures  python  snap  Videos
Documents  Dropbox    Music             Public    saprativa  Templates
sb@sb:~$ cd saprativa
sb@sb:~/saprativa$ gedit hello.c
sb@sb:~/saprativa$ gcc hello.c
sb@sb:~/saprativa$ ls
a.out  hello.c
sb@sb:~/saprativa$ ./a.out
Hello World!
sb@sb:~/saprativa$
```