LAB MANUAL Operating Systems

Lab 2

Execute a C/C++ program on terminal using gcc/g++ compiler

Follow these steps to run programs on terminal:

Step 1. Open terminal.

Step 2. Type command to install gcc or g++ complier:

$ sudo apt-get install build-essential

This will install the necessary C/C++ development libraries for your Ubuntu to create C/C++ programs.

To check gcc/g++ version type this command:

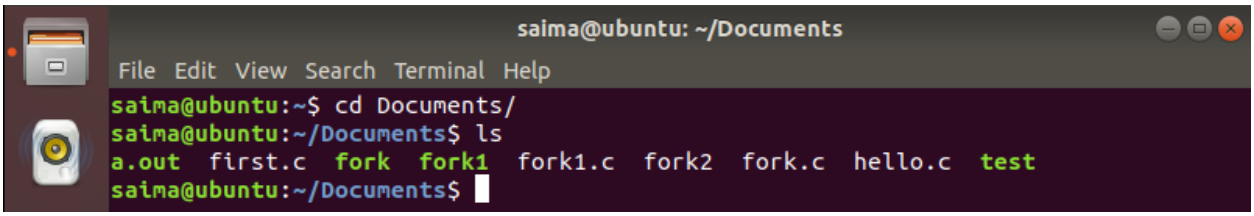
$ gcc –version or gcc –v

$ g++ –version or g++ –v

Step 3.

Now go to that folder where you will create C/C++ programs. I am creating my programs in Documents directory. Type these commands:

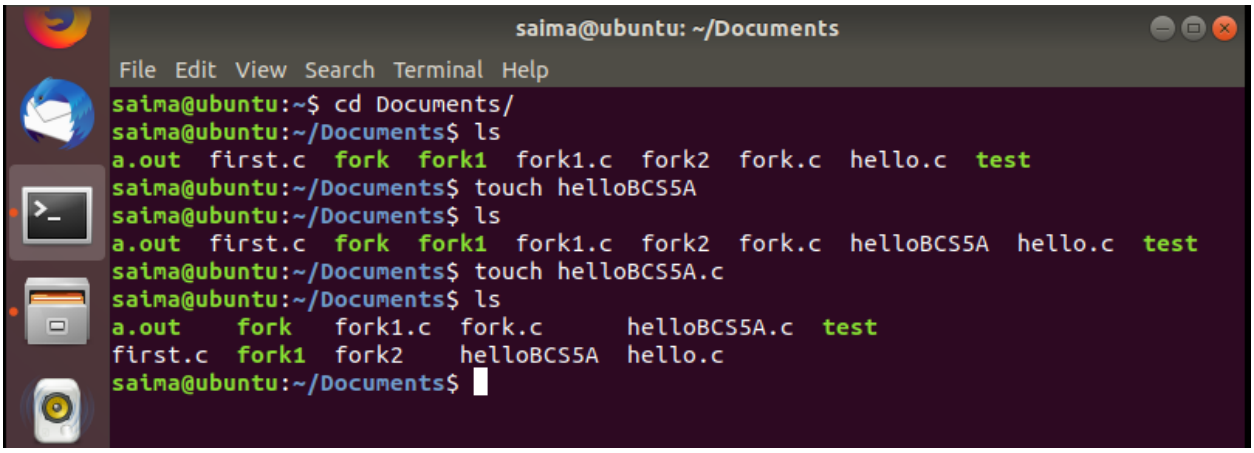
$ cd Documents/



Step 4.

Creates a helloBCS5A.c file

$touch helloBCS5A.c (for C programs)

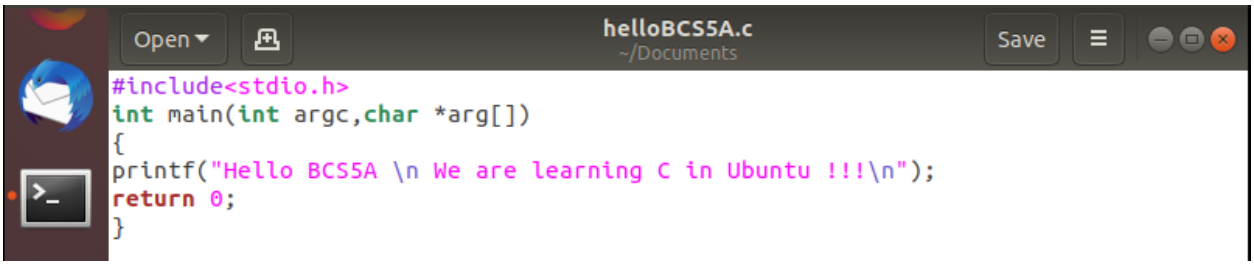


Step 5.

Add this code in the file:

C program code:

```
#include<stdio.h>
void main(int argc,char *arg[])
{
printf("Hello BCS5A \n We are learning C in Ubuntu !!!\n");
return 0;
}
```



Step 6. Save the file and exit.

Step 7. Compiling C program.

$ gcc helloBCS5A.c -o helloBCS5A

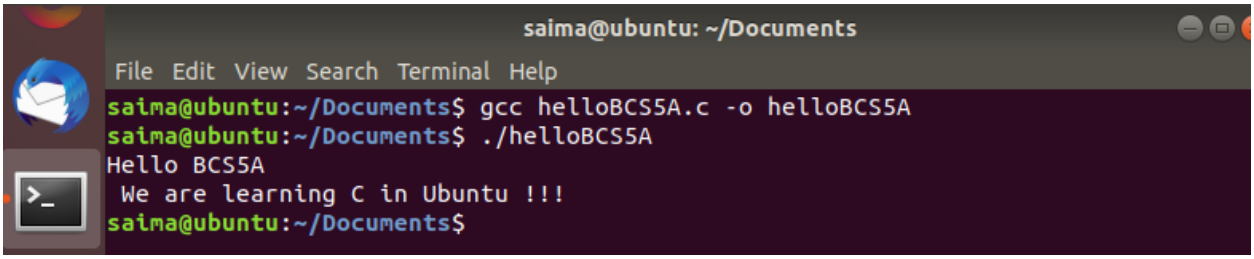
It will create an executable file

Step 8. To run this program, type this command:

$ ./helloBCS5A

It will show output on the terminal.

Step 9. OUTPUT



To clear the screen

$ clear

Lab Tasks

1. Install g++ in your VM, learn how to create, save, and code a C file. How to compile and run using hello world program.
2. Execute the following commands on the command line and explain what each command does.
    1) date
    2) date -d “today”
    3) date -d “yesterday”
    4) timedate ctl
    5) date - -set “15 Aug 2020”
    6) man date
    7) dpkg-reconfigure tzdata
    8) cal
    9) date +%D
    10) date +%d%m%y