

Analysis of the output generated by files using gcc and g++ compilers in Ubuntu

gcc and g++ compilers are used to compile the program of c and c++ languages respectively. These compilers provide sufficient libraries to write, debug and execute the programs of c and c++ languages. Following is the step by step guide to create and write programs in gcc and g++ in Ubuntu:

1. Checking whether gcc and g++ installed or not:

```
hamza@hamza-VirtualBox:~/Desktop$ gcc --version
gcc (Ubuntu 11.4.0-1ubuntu1~22.04) 11.4.0
Copyright (C) 2021 Free Software Foundation, Inc.
This is free software; see the source for copying conditions. There is NO
warranty; not even for MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.

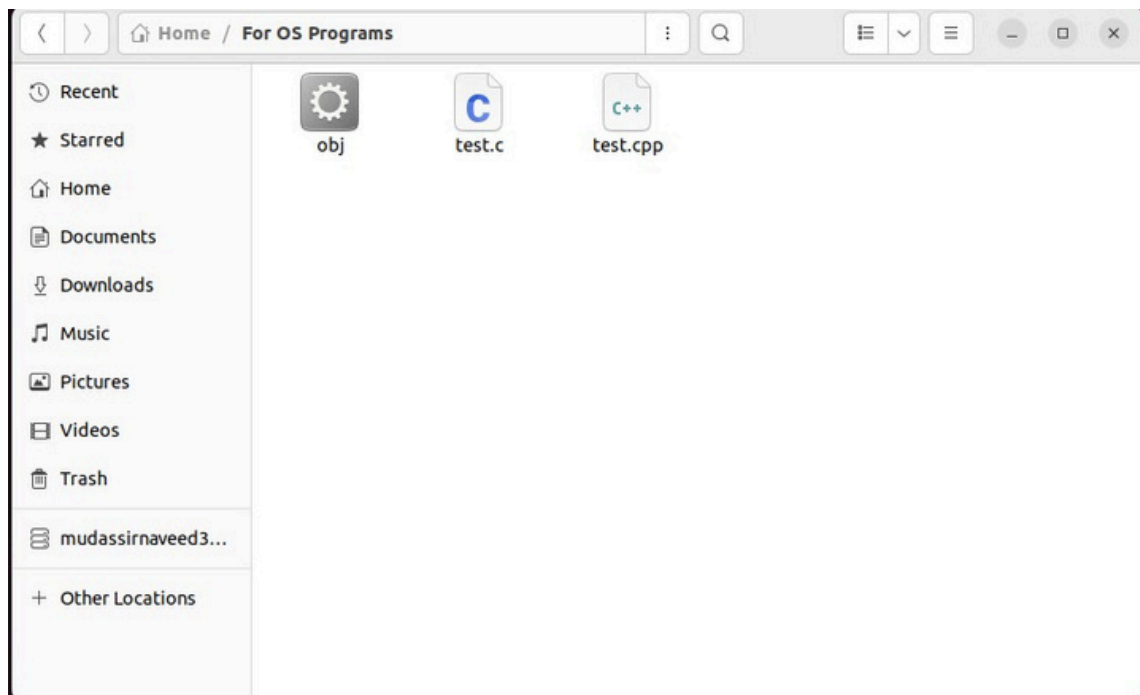
hamza@hamza-VirtualBox:~/Desktop$ g++ --version
g++ (Ubuntu 11.4.0-1ubuntu1~22.04) 11.4.0
Copyright (C) 2021 Free Software Foundation, Inc.
This is free software; see the source for copying conditions. There is NO
warranty; not even for MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.

hamza@hamza-VirtualBox:~/Desktop$
```

2. On terminal of Ubuntu write this command to create files:

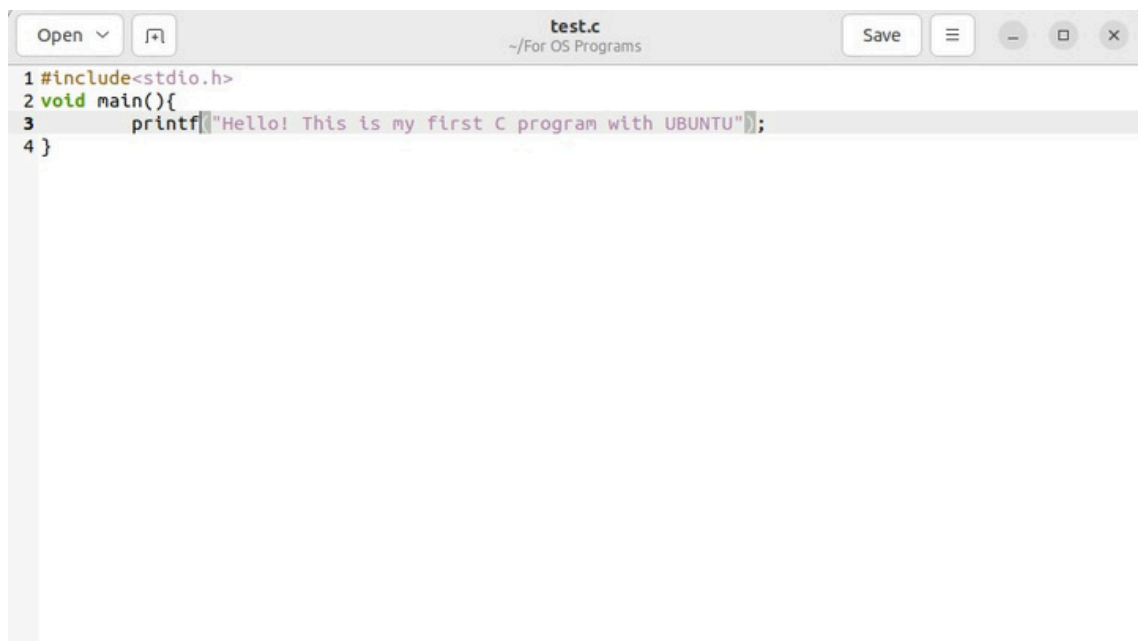
```
touch test.c
touch test.cpp
```

3. In the selected folder double click on the file created:



4. Write the code inside the files with their respective syntax:

For C language:



```
1 #include<stdio.h>
2 void main(){
3     printf("Hello! This is my first C program with UBUNTU");
4 }
```

For C++ language:



```
1 #include<iostream>
2 using namespace std;
3 int main(){
4     cout << "G++ Compiler Testing" << endl;
5     cout << "Compiler working fine" << endl;
6     return 0;
7 }
```

5. Run the commands to create the object files of source files:

```
gcc -o obj test.c
g++ -o obj test.cpp
```

6. Run the Following commands to run the object file:

```
./obj
```

7. The desired Output is as Follows:

```
hamza@hamza-VirtualBox:~/Desktop$ ./obj
c++ comp testing
comp chal rha hai
```

Task 3:

Link of Github Repository:

Follow the link of [Github Repository](#) for more info.
