

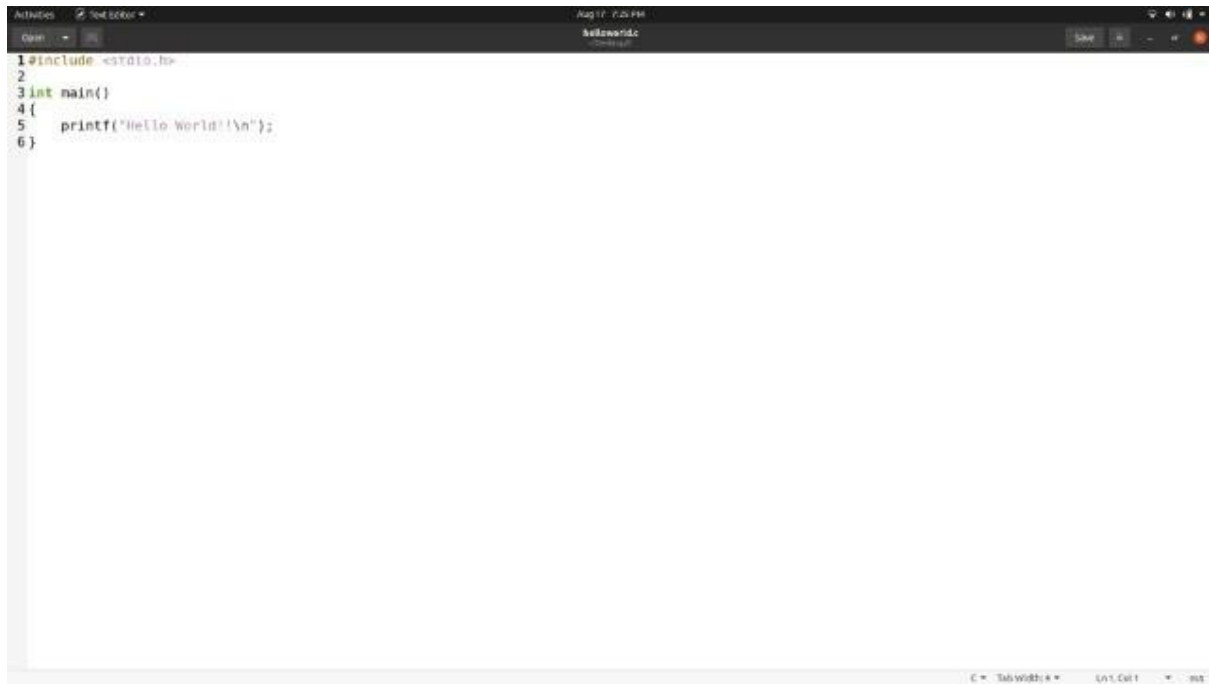


# CA – Lab - 1

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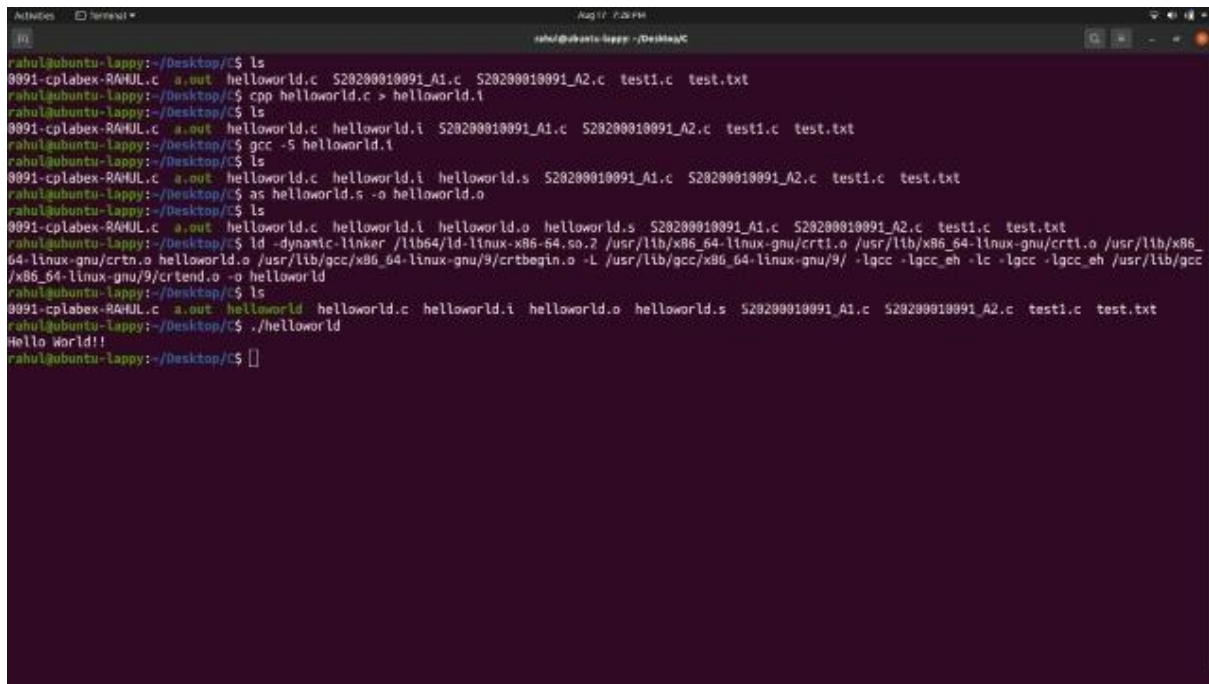
This is the helloworld program I have written :

A screenshot of a code editor window. The window has a dark theme and a title bar that says "helloworld.c". The code is written in C and is as follows:

```
1#include <stdio.h>
2
3int main()
4{
5    printf("Hello World!\n");
6}
```

The code is syntax-highlighted, with keywords like 'include', 'int', and 'printf' in green, and string literals in red. The editor has a menu bar with 'Open' and 'Save' options. The status bar at the bottom shows 'C', 'Tab width: 4', 'Ln 1, Col 1', and '903'.

The following is the step by step compilation process :



```
rahul@ubuntu-lappy: ~/Desktop/C
rahul@ubuntu-lappy:~/Desktop/C$ ls
0091-cplabex-RAHUL.c  a.out  helloworld.c  S20200010091_A1.c  S20200010091_A2.c  test1.c  test.txt
rahul@ubuntu-lappy:~/Desktop/C$ gcc helloworld.c > helloworld.i
rahul@ubuntu-lappy:~/Desktop/C$ ls
0091-cplabex-RAHUL.c  a.out  helloworld.c  helloworld.i  S20200010091_A1.c  S20200010091_A2.c  test1.c  test.txt
rahul@ubuntu-lappy:~/Desktop/C$ gcc -S helloworld.i
rahul@ubuntu-lappy:~/Desktop/C$ ls
0091-cplabex-RAHUL.c  a.out  helloworld.c  helloworld.i  helloworld.s  S20200010091_A1.c  S20200010091_A2.c  test1.c  test.txt
rahul@ubuntu-lappy:~/Desktop/C$ as helloworld.s -o helloworld.o
rahul@ubuntu-lappy:~/Desktop/C$ ls
0091-cplabex-RAHUL.c  a.out  helloworld.c  helloworld.i  helloworld.o  helloworld.s  S20200010091_A1.c  S20200010091_A2.c  test1.c  test.txt
rahul@ubuntu-lappy:~/Desktop/C$ ld -dynamic-linker /lib64/ld-linux-x86-64.so.2 /usr/lib/x86_64-linux-gnu/crti.o /usr/lib/x86_64-linux-gnu/crtn.o helloworld.o /usr/lib/gcc/x86_64-linux-gnu/9/crtbegin.o -L /usr/lib/gcc/x86_64-linux-gnu/9/ -lgcc -lgcc_eh -lc -lgcc -lgcc_eh /usr/lib/gcc/x86_64-linux-gnu/9/crtend.o -o helloworld
rahul@ubuntu-lappy:~/Desktop/C$ ls
0091-cplabex-RAHUL.c  a.out  helloworld  helloworld.c  helloworld.i  helloworld.o  helloworld.s  S20200010091_A1.c  S20200010091_A2.c  test1.c  test.txt
rahul@ubuntu-lappy:~/Desktop/C$ ./helloworld
Hello World!!
rahul@ubuntu-lappy:~/Desktop/C$
```