

#### **Experiment - 1.2**

Name: Rohan Jaiswal UID: 21BCS2856

**Branch:** BE-CSE **Section/Group:** KRG\_CC\_1 B

**Semester:** 6<sup>th</sup> **Date of Performance:** 20-01-2024

**Subject Name:** Cloud Computing and Distributed Systems

Subject Code: 21CSP-378

#### 1. Aim:

To install a c compiler within the virtual machine established using virtualbox and run basic programs.

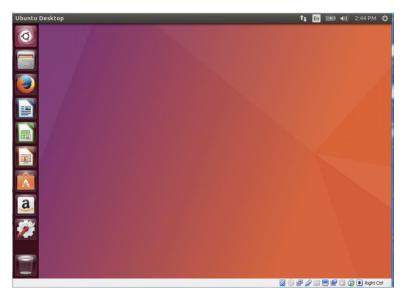
# 2. Objective:

To run C program in ubuntu virtual machines.

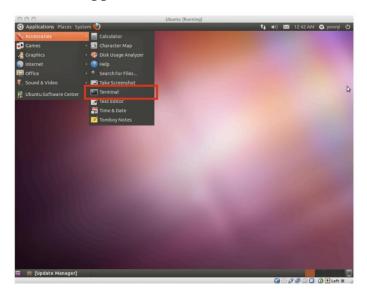
## 3. Steps to run:

Step 1: Download the virtual box

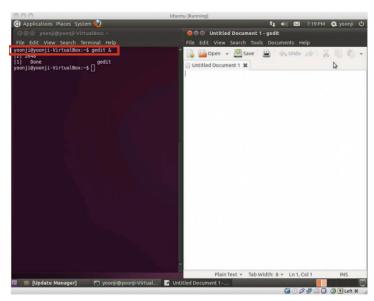
Step 2: Open ubuntu on virtual box



Step 3: Open Terminal (Applications-Accessories-Terminal)



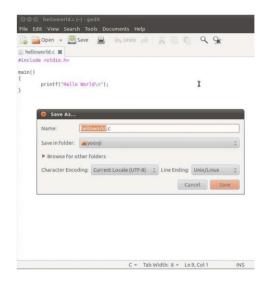
Step 4: Open gedit by typing "gedit &" on terminal (You can also use any other Text Editor application)



Step 5: Type the following on gedit(or any other text editor)

```
#include<stdio.h>
main()
{
    printf("Hello World\n");
}
```

Step 6: Save this file as "helloworld.c"



- Step 7: Type "ls" on Terminal to see all files under current folder
- Step 8: Confirm that "helloworld.c" is in the current directory. If not, type cd DIRECTORY\_PATH to go to the directory that has "helloworld.c"
- Step 9: Type "gcc helloworld.c" to compile, and type "ls" to confirm that a new executable file "a.out" is created.

```
File Edit View Search Terminal Help

yoonji@yoonji-VirtualBox:~$ ls

Desktop Downloads helloworld.c Pictures Templates

Documents examples.desktop Music Public Videos

yoonji@yoonji-VirtualBox:~$ gcc helloworld.c

yoonji@yoonji-VirtualBox:~$ ls

a.out Documents examples.desktop Music Public Videos

Desktop Downloads helloworld.c

yoonji@yoonji-VirtualBox:~$
```

Step 10: Type "./a.out" on Terminal to run the programc

Step 11: If you see "Hello World" on the next line, you just successfully ran your first C program!

```
🍪 🖨 📵 yoonji@yoonji-VirtualBox: ~
 File Edit View Search Terminal Help
yoonji@yoonji-VirtualBox:~$ ls
Desktop
          Downloads
                            helloworld.c Pictures Templates
Documents examples.desktop Music
yoonji@yoonji-VirtualBox:~$ gcc helloworld.c
yoonji@yoonji-VirtualBox:~$ ls
        Documents examples.desktop Music
                                              Public
                                                         Videos
Desktop Downloads helloworld.c
                                    Pictures Templates
yoonji@yoonji-VirtualBox:~$ ./a.out
Hello World
yoonji@yoonji-VirtualBox:~$
```

### 4. Learning Outcome:

- Learn how to install VirtualBox.
- Understand about ubuntu.
- Understand how to run c program on virtual machine.