

Operating Systems

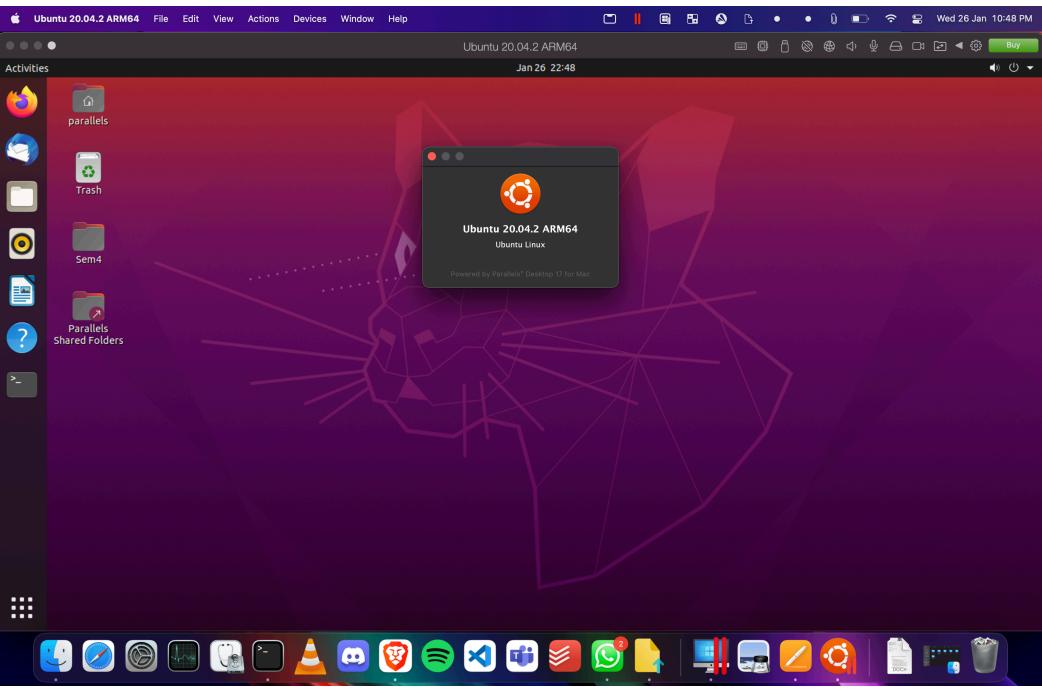
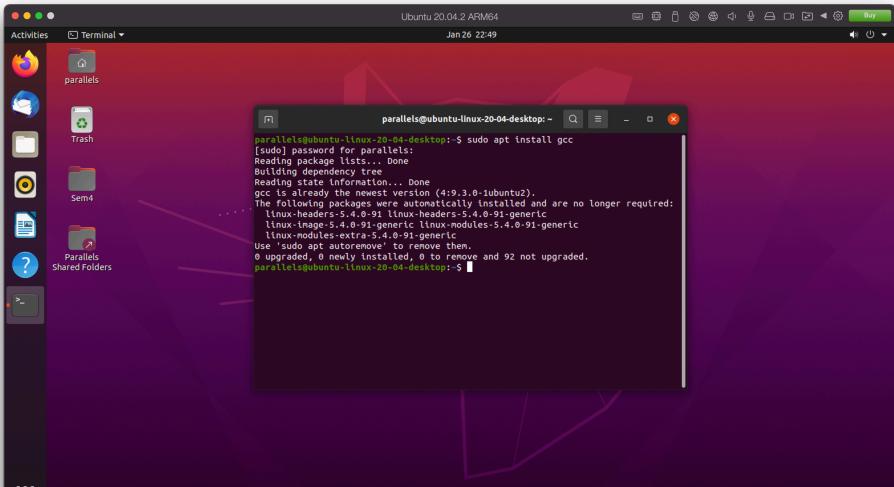
UE20CS254

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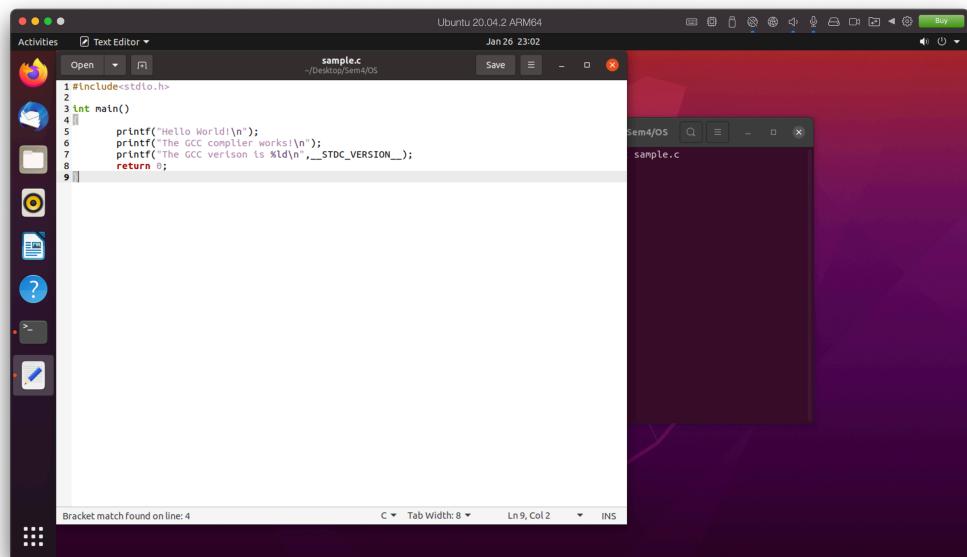
Section: D

Week 1

Task 1	Creation of Linux VM
Output Screenshot	
Task 2	<p>Installation of C compiler sudo apt install gcc". Or "sudo apt-get install gcc"</p>
Output Screenshot	

Task 3

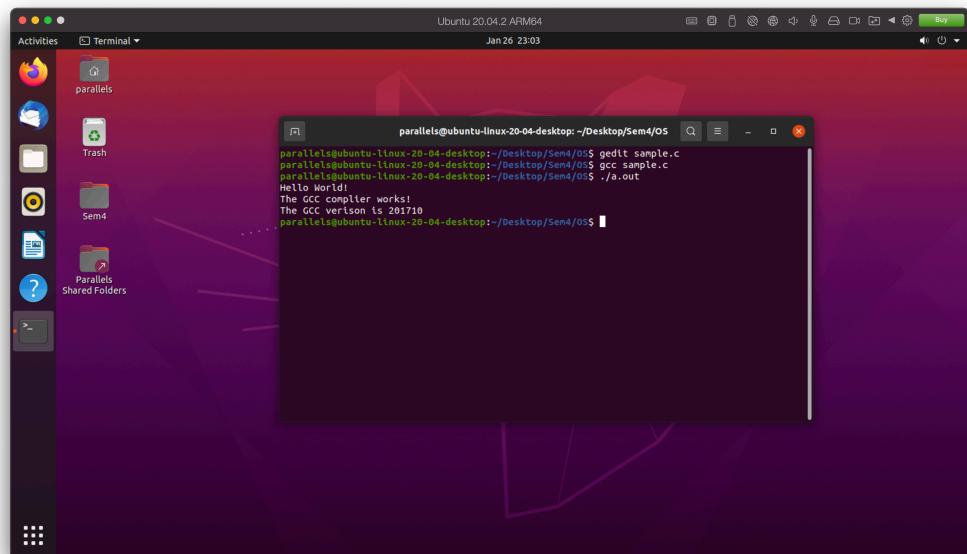
Creation of a sample program

**Output
Screenshot**

A screenshot of a Linux desktop environment, likely Ubuntu, showing a text editor window titled "sample.c". The code in the editor is:

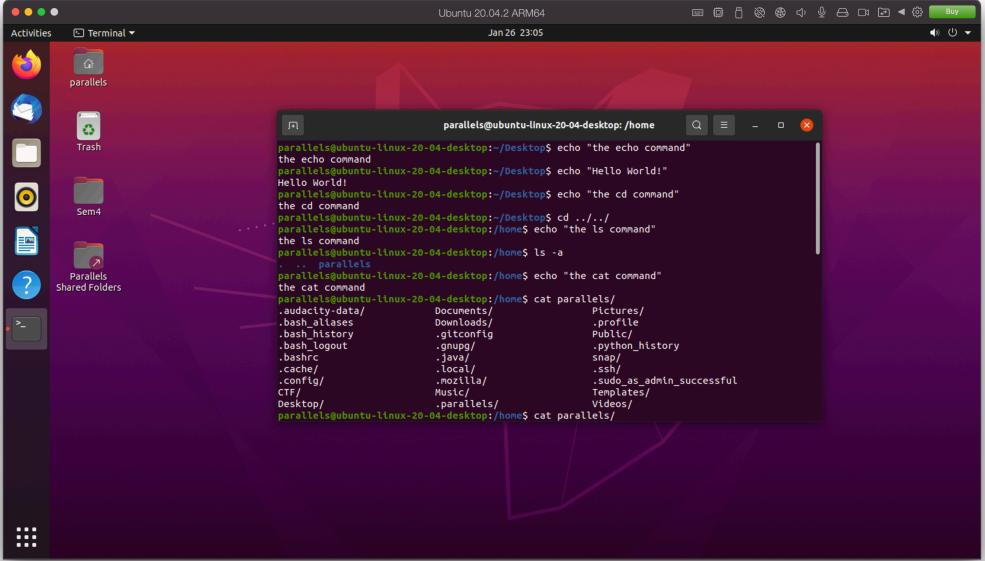
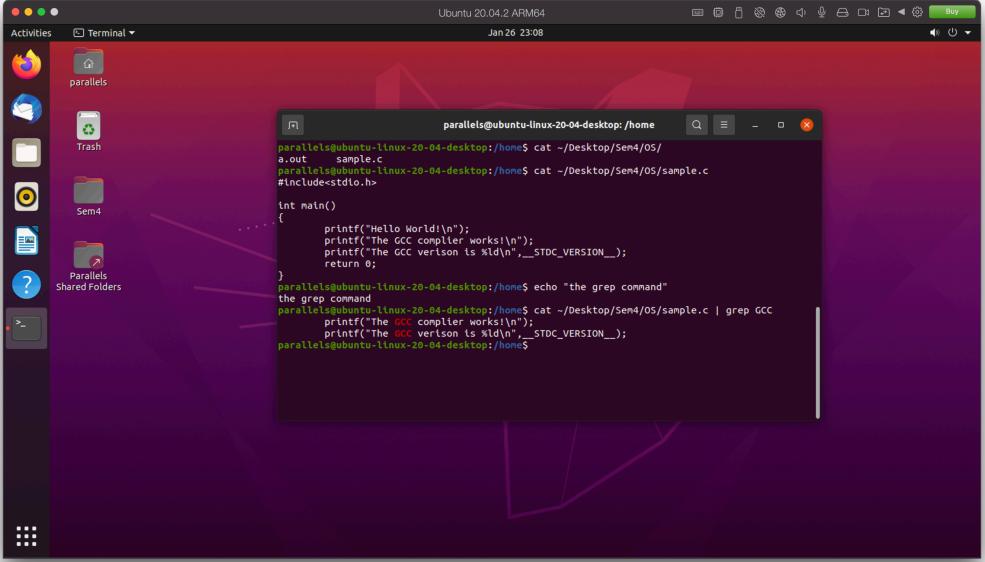
```
#include<stdio.h>
int main()
{
    printf("Hello World!\n");
    printf("The GCC compiler works!\n");
    printf("The GCC version is %d\n", __STDC_VERSION__);
    return 0;
}
```

The status bar at the bottom of the editor shows "Bracket match Found on line: 4", "C", "Tab Width: 8", "Ln 9, Col 2", and "INS".

**Output
Screenshot
2**

A screenshot of a Linux desktop environment showing a terminal window. The terminal output is:

```
parallels@ubuntu-linux-20-04-desktop:~/Desktop/Sem4/OS$ gedit sample.c
parallels@ubuntu-linux-20-04-desktop:~/Desktop/Sem4/OS$ gcc sample.c
parallels@ubuntu-linux-20-04-desktop:~/Desktop/Sem4/OS$ ./a.out
Hello world!
The GCC compiler works!
The GCC version is 201710
...
```

Task 4	Linux shell commands
Output Screenshot	 <pre> parallel@ubuntu-linux-20-04-desktop:~/Desktop\$ echo "the echo command" the echo command parallel@ubuntu-linux-20-04-desktop:~/Desktop\$ echo "Hello World!" Hello World! parallel@ubuntu-linux-20-04-desktop:~/Desktop\$ echo "the cd command" the cd command parallel@ubuntu-linux-20-04-desktop:~/Desktop\$ cd ../.. parallel@ubuntu-linux-20-04-desktop:~/home\$ echo "the ls command" the ls command parallel@ubuntu-linux-20-04-desktop:~/home\$ ls -a . .. parallel@ubuntu-linux-20-04-desktop:~/home\$ echo "the cat command" the cat command parallel@ubuntu-linux-20-04-desktop:~/home\$ cat parallels/ .audacity-data/ Documents/ Pictures/ .bash_aliases Downloads/ .profile .bash_history .gitconfig .pulse/ .bash_logout .gnome/ .python_history .bashrc/ .java/ .snap/ .cache/ .local/ .ssh/ .config/ .mozilla/ Templates/ .CTF/ .Music/ .sudo_as_admin_successful Desktop/ .parallels/ Videos/ parallel@ubuntu-linux-20-04-desktop:~/home\$ cat parallels/ </pre>
Output Screenshot 2	 <pre> parallel@ubuntu-linux-20-04-desktop:~/home\$ cat ~/Desktop/Sem4/OS/a.out sample.c parallel@ubuntu-linux-20-04-desktop:~/home\$ cat ~/Desktop/Sem4/OS/sample.c #include<stdio.h> int main() { printf("Hello World!\n"); printf("The GCC compiler works!\n"); printf("The GCC version is %ld\n",__STDC_VERSION__); return 0; } parallel@ubuntu-linux-20-04-desktop:~/home\$ echo "the grep command" the grep command parallel@ubuntu-linux-20-04-desktop:~/home\$ cat ~/Desktop/Sem4/OS/sample.c grep GCC printf("The GCC compiler works!\n"); printf("The GCC version is %ld\n",__STDC_VERSION__); parallel@ubuntu-linux-20-04-desktop:~/home\$ </pre>