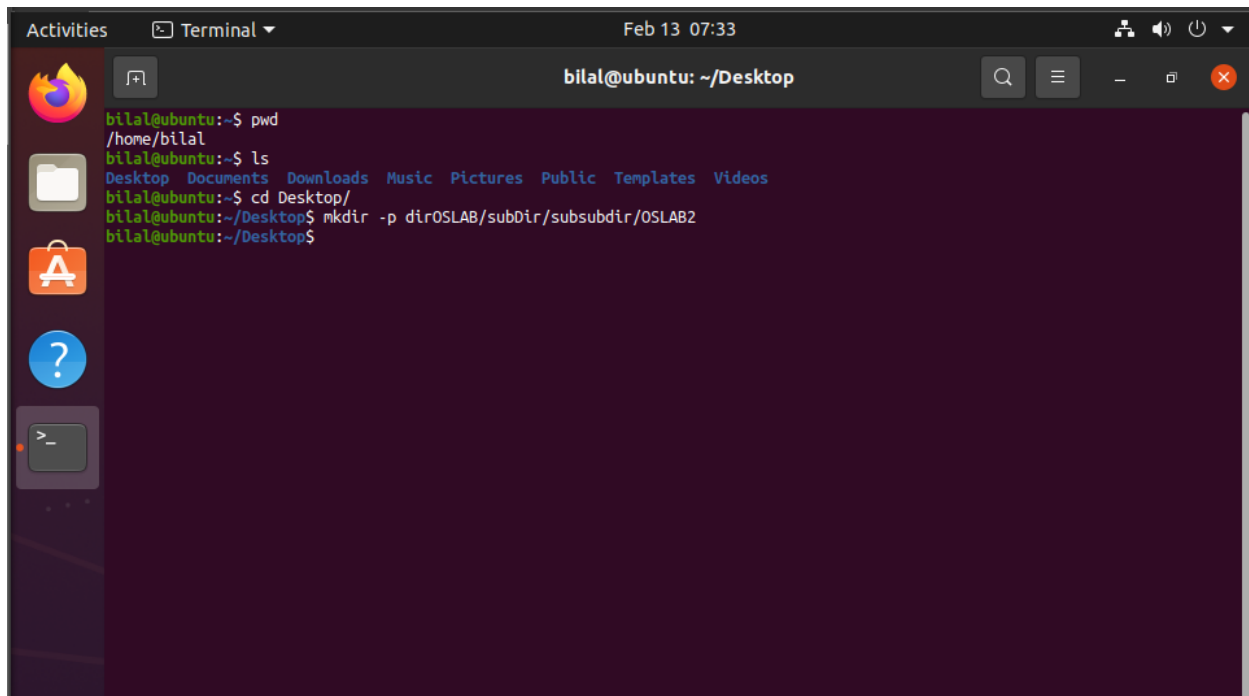


Question 01

```
Activities Terminal Feb 13 07:23 bilal@ubuntu: ~  
bilal@ubuntu:~$ sudo addgroup oslab02  
Adding group 'oslab02' (GID 1001) ...  
Done.  
bilal@ubuntu:~$ sudo adduser osuser1  
Adding user 'osuser1' ...  
Adding new group 'osuser1' (1002) ...  
Adding new user 'osuser1' (1001) with group 'osuser1' ...  
Creating home directory '/home/osuser1' ...  
Copying files from '/etc/skel' ...  
New password:  
Retype new password:  
passwd: password updated successfully  
Changing the user information for osuser1  
Enter the new value, or press ENTER for the default  
Full Name []: osuser1  
Room Number []: 4  
Work Phone []: -  
Home Phone []: -  
Other []: -  
Is the information correct? [Y/n] Y  
bilal@ubuntu:~$ sudo adduser osuser2  
Adding user 'osuser2' ...  
Adding new group 'osuser2' (1003) ...  
Adding new user 'osuser2' (1002) with group 'osuser2' ...  
Creating home directory '/home/osuser2' ...  
Copying files from '/etc/skel' ...  
New password:  
Retype new password:  
Sorry, passwords do not match.  
passwd: Authentication token manipulation error  
passwd: password unchanged  
Try again? [y/N] y  
New password:  
Retype new password:  
passwd: password updated successfully  
Changing the user information for osuser2  
Enter the new value, or press ENTER for the default  
Full Name []: osuser2  
Room Number []: 04  
Work Phone []: -  
Home Phone []: -  
Other []: -  
Is the information correct? [Y/n] Y  
bilal@ubuntu:~$ sudo usermod -a -G oslab2 osuser2  
[sudo] password for bilal:  
usermod: group 'oslab2' does not exist  
bilal@ubuntu:~$ sudo usermod -a -G oslab02 osuser2  
bilal@ubuntu:~$ sudo usermod -a -G sudo osuser2  
bilal@ubuntu:~$ su osuser2  
Password:  
To run a command as administrator (user "root"), use "sudo <command>".  
See "man sudo_root" for details.  
  
osuser2@ubuntu:/home/bilal$ cd ~  
osuser2@ubuntu:~$ exit  
exit  
bilal@ubuntu:~$
```

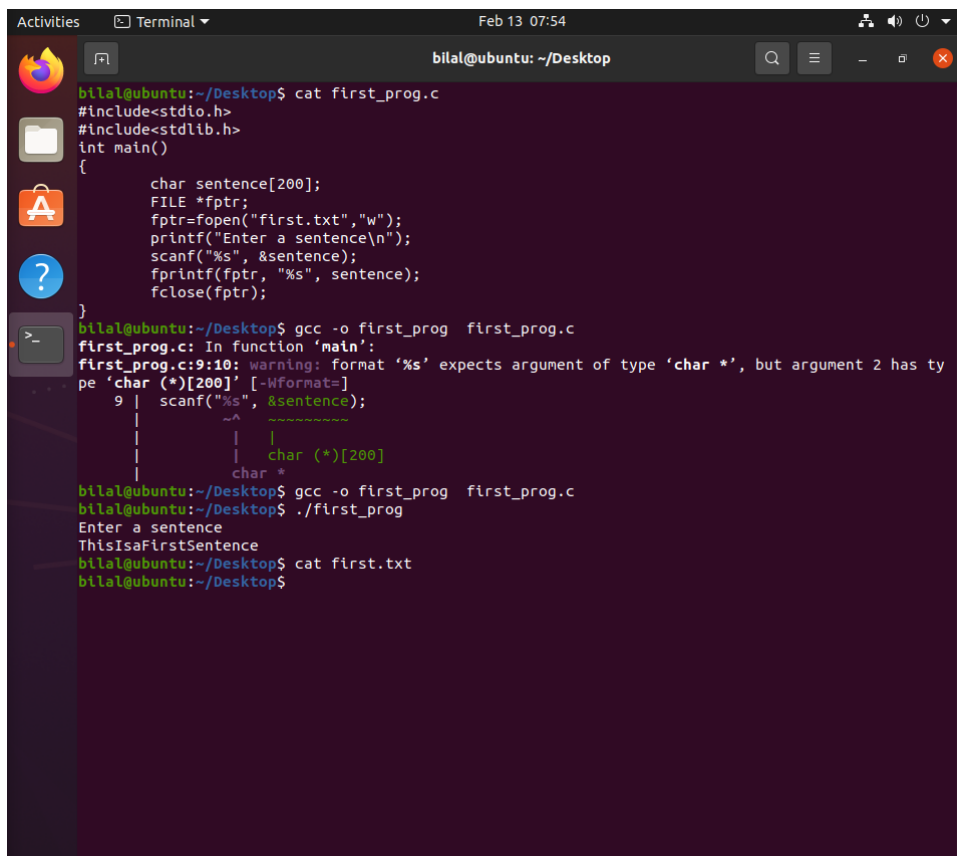
Question 02



A terminal window titled "Terminal" with the date and time "Feb 13 07:33". The window shows the user "bilal@ubuntu" in the directory "~/Desktop". The user runs the following commands:

```
bilal@ubuntu:~$ pwd
/home/bilal
bilal@ubuntu:~$ ls
Desktop  Documents  Downloads  Music  Pictures  Public  Templates  Videos
bilal@ubuntu:~$ cd Desktop/
bilal@ubuntu:~/Desktop$ mkdir -p dirOSLAB/subDir/subsubdir/OSLAB2
bilal@ubuntu:~/Desktop$
```

Question 03



A terminal window titled "Terminal" with the date and time "Feb 13 07:54". The window shows the user "bilal@ubuntu" in the directory "~/Desktop". The user runs the following commands:

```
bilal@ubuntu:~/Desktop$ cat first_prog.c
#include<stdio.h>
#include<stdlib.h>
int main()
{
    char sentence[200];
    FILE *fptr;
    fptr=fopen("first.txt","w");
    printf("Enter a sentence\n");
    scanf("%s", &sentence);
    fprintf(fptr, "%s", sentence);
    fclose(fptr);
}
bilal@ubuntu:~/Desktop$ gcc -o first_prog first_prog.c
first_prog.c: In function 'main':
first_prog.c:9:10: warning: format '%s' expects argument of type 'char *', but argument 2 has type 'char (*)[200]' [-Wformat=]
   9 |     scanf("%s", &sentence);
     |             ~^          ~~~~~
           |             |             |
           |             |             char (*)[200]
           |             |             char *
bilal@ubuntu:~/Desktop$ gcc -o first_prog first_prog.c
bilal@ubuntu:~/Desktop$ ./first_prog
Enter a sentence
ThisIsaFirstSentence
bilal@ubuntu:~/Desktop$ cat first.txt
bilal@ubuntu:~/Desktop$
```

```
Activities Terminal Feb 13 07:56 bilal@ubuntu: ~/Desktop

bilal@ubuntu:~/Desktop$ cat second_prog.c
#include<stdio.h>
#include<stdlib.h>
int main()
{
    char sentence[200];
    FILE *fptr;
    fptr=fopen("second.txt","w");
    printf("Enter a sentence\n");
    scanf("%s", &sentence);
    fprintf(fptr, "%s", sentence);
    fclose(fptr);
}
bilal@ubuntu:~/Desktop$ gcc -o second_prog second_prog.c
second_prog.c: In function 'main':
second_prog.c:9:10: warning: format '%s' expects argument of type 'char *', but argument 2 has type 'char (*)[200]' [-Wformat=]
    9 |     scanf("%s", &sentence);
      |           ~^   ~~~~~
      |           |   |
      |           |   char (*)[200]
      |           |   char *
bilal@ubuntu:~/Desktop$ gcc -o second_prog second_prog.c
bilal@ubuntu:~/Desktop$ ./second_prog
Enter a sentence
ThisIsTheSecondSentence
bilal@ubuntu:~/Desktop$ cat second.txt
ThisIsTheSecondSentencebilal@ubuntu:~/Desktop$
```

```
Activities Terminal Feb 13 08:00 bilal@ubuntu: ~/Desktop

bilal@ubuntu:~/Desktop$ cat first.txt second.txt
ThisIsaFirstSentenceThisIsTheSecondSentencebilal@ubuntu:~/Desktop$
```