

C programming in Ubuntu

OPERATING SYSTEMS LABS



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BS(CS) :: Section 4A

Submitted to

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Q::1

MyFirst.c // FileName

```
#include <stdio.h>
#include <stdlib.h>
void main()
{
    char name[12];
    printf("Please Enter your name :: ");
    fgets(name, 12, stdin);
    printf("The name is :: %s! \n", name);
    system("ls");
}
```



The screenshot shows a terminal window titled 'ibrar@Ibrar: ~'. The user runs the following commands:

```
ibrar@Ibrar:~$ gedit myFirst.c
ibrar@Ibrar:~$ gcc myFirst.c -o myFirst
ibrar@Ibrar:~$ ./myFirst
```

The program prompts the user to enter a name. The user enters 'ibrar babar'. The program then outputs the name and runs the 'ls' command, displaying a directory listing:

```
Please Enter your name :: ibrar babar
The name is :: ibrar babar!
''$\004'  command  file.txt  lab4.txt  Nasm-Setup  Templates
a         command.c Grades    Music     newfilw    temporary
abc       Desktop  hello1.txt myFirst   output.txt  text10.txt
abc2      Documents hello2     myFirst.c progcpp.cpp text1.txt
abc3      Downloads images     nano.save  Public     Videos
a.cpp     file2.txt  Irmages    nasm-lab  snap       xyz.txt
```

Q::2

TASK2.c //FileName

```

#include<stdio.h>
#include<stdlib.h>
void main()
{
    printf("Before making Test Directory\n");
    system("ls");
    system("mkdir Test");
    system("cd Test; cat >Test1");
    system("cd Test; cat >Test2");
    printf("After making Test Directory & its subdirectories (Test1 & Test2)\n");
    system("ls");
    system("rm -r Test");
    printf("After Removal of Test Directory\n");
    system("ls");
}

```

Output

The screenshot shows a terminal window titled 'ibrar@Ibrar: ~'. The user runs the following commands: `gedit Task2.c`, `gcc Task2.c -o Task2`, and `./Task2`. The program's output is as follows:

```

ibrar@Ibrar:~$ gedit Task2.c
ibrar@Ibrar:~$ gcc Task2.c -o Task2
ibrar@Ibrar:~$ ./Task2
Before making Test Directory
command    Downloads  Music      Nasm-Setup  snap        temporary
command.c  Grades    myFirst    pictures     Task2       test.txt
Desktop    images    myFirst.c  progcpp.cpp  Task2.c     Videos
Documents  lab4.txt  nasm-lab   Public       Templates
This is Test1.txt file.
This is Test2.txt file.
After making Test Directory & its subdirectories (Test1 & Test2)
command    Downloads  Music      Nasm-Setup  snap        temporary
command.c  Grades    myFirst    pictures     Task2       Test
Desktop    images    myFirst.c  progcpp.cpp  Task2.c     test.txt
Documents  lab4.txt  nasm-lab   Public       Templates   Videos
After Removal of Test Directory
command    Downloads  Music      Nasm-Setup  snap        temporary
command.c  Grades    myFirst    pictures     Task2       test.txt
Desktop    images    myFirst.c  progcpp.cpp  Task2.c     Videos
Documents  lab4.txt  nasm-lab   Public       Templates
ibrar@Ibrar:~$

```