OS Lab
Lab 1 Report

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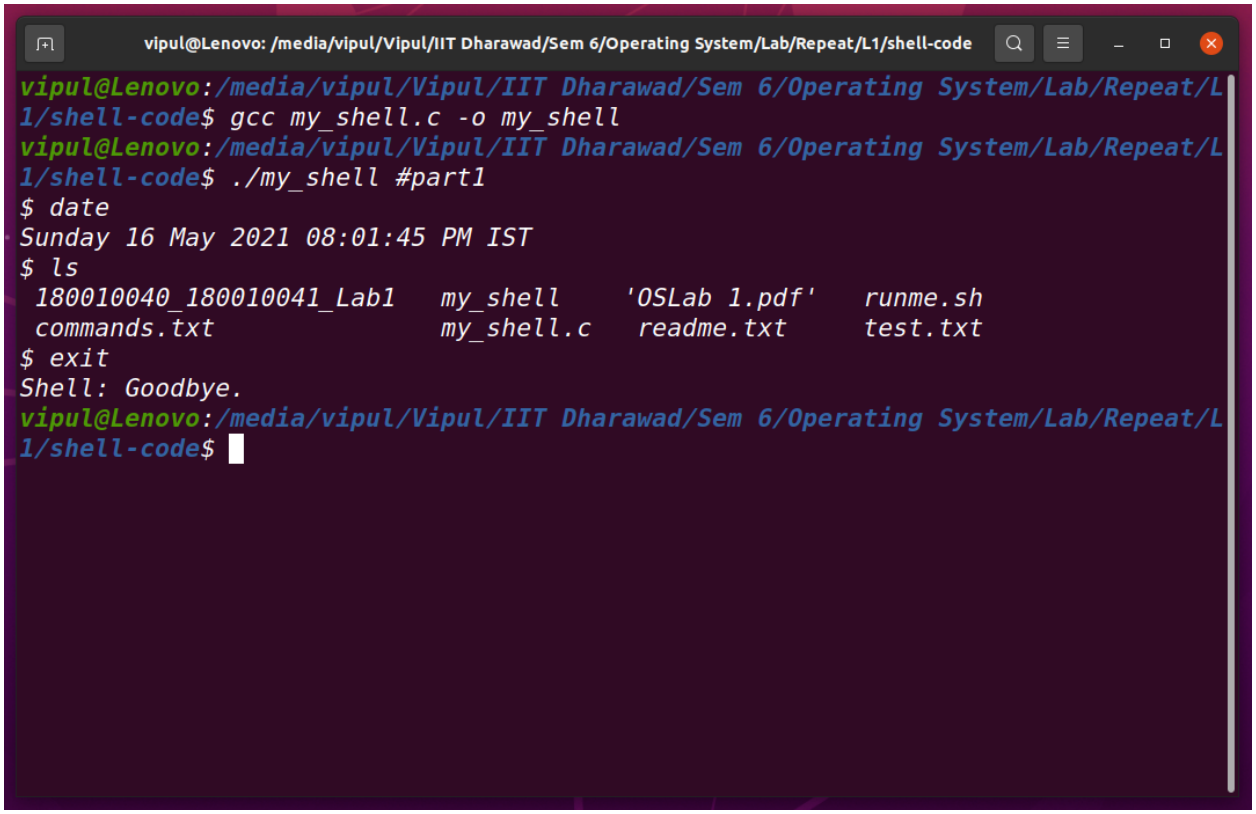
Here is the output for the program after running it.

Part 1



Commands:

```
gcc my_shell.c -o my_shell
./my_shell
date
ls
```

To test part 1 we have run the following commands, output for which can be seen in the above image.

Part 2

```
sleep 10 &
ls
$ $ 180010040_180010041_Lab1  my_shellA    readme.txt
commands.txt                  my_shellA.c  runme.sh
my_shell                      my_shell.c   test.txt
$ Shell: Background process finished
^Z
[23]+  Stopped                 ./my_shell
vipul@Lenovo:/media/vipul/Vipul/IIT Dharawad/Sem 6/Operating System/
b/Repeat/L1/shell-code$
```

Commands:

gcc my_shell.c -o my_shell

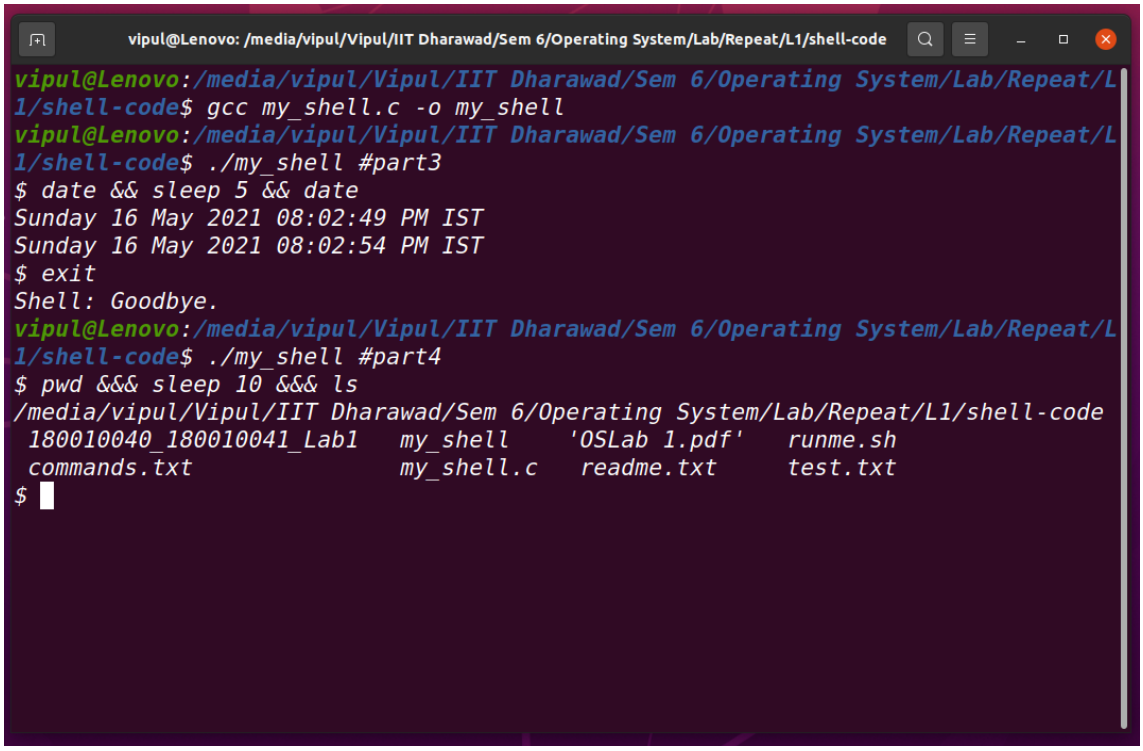
./my_shell

sleep 10 &

Pwd

For part 2 we have run ‘sleep 10 &’ and pwd command. And we got the desired output as can be seen in the above image. Here program is running in background

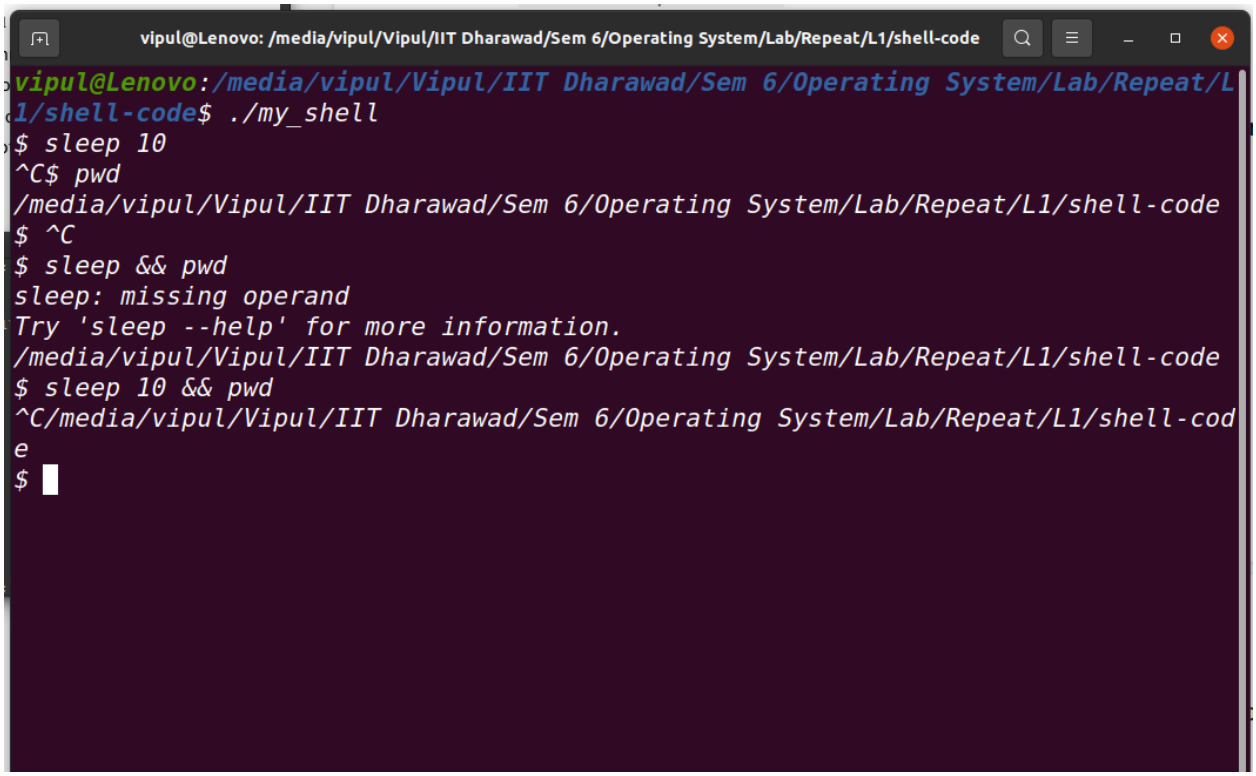
Part 3 & 4



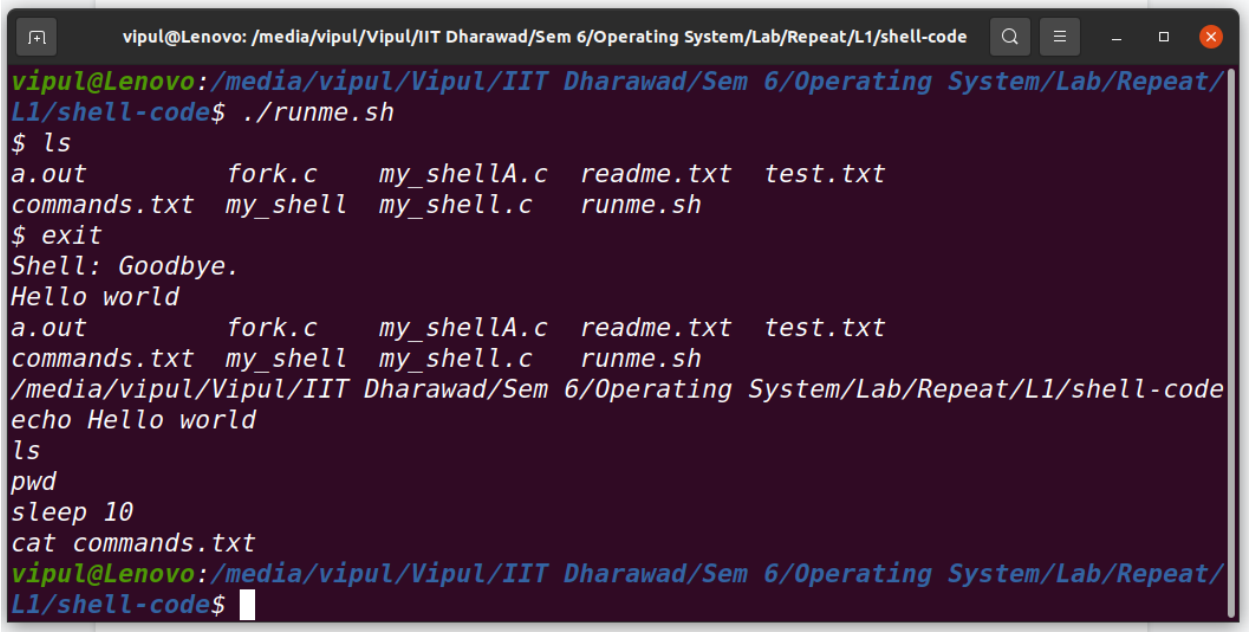
Commands:

```
gcc my_shell.c -o my_shell
./my_shell #part3
Date && sleep 5 && date
./my_shell #part4
Pwd &&& sleep 10 &&& ls
```

We tested the part 3 and 4 by running above commands output for which can be seen above. Here we have tested (ctrl+c) to terminate the program. As we can see, command stops when we press ctrl + c (C^) for part 4. For part 3 we can see the serial execution of the program. And in part 4 we can see the parallel execution of the program.



Commandes are written in runme.sh to run all the things together. So you can run runme.sh and get the same output as can be seen below.



Command:

```
./runme.sh
```

As we can see in both the output, ls command is giving the desired output that is files in the current folder. Even pwd is giving correct output which is location.

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