

image-1

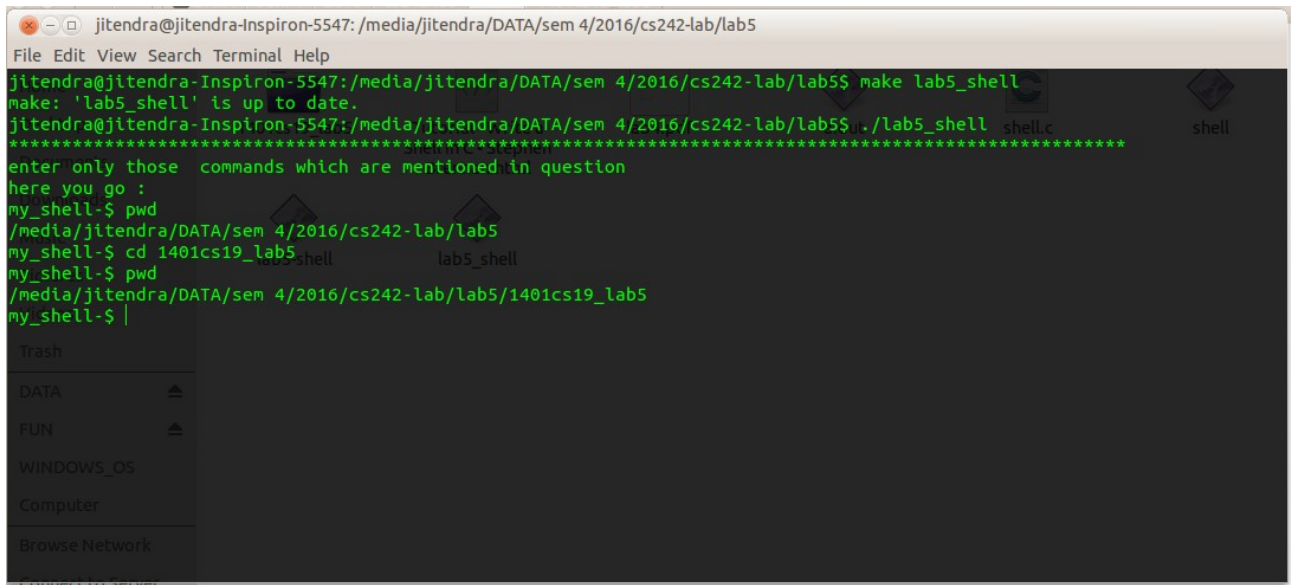
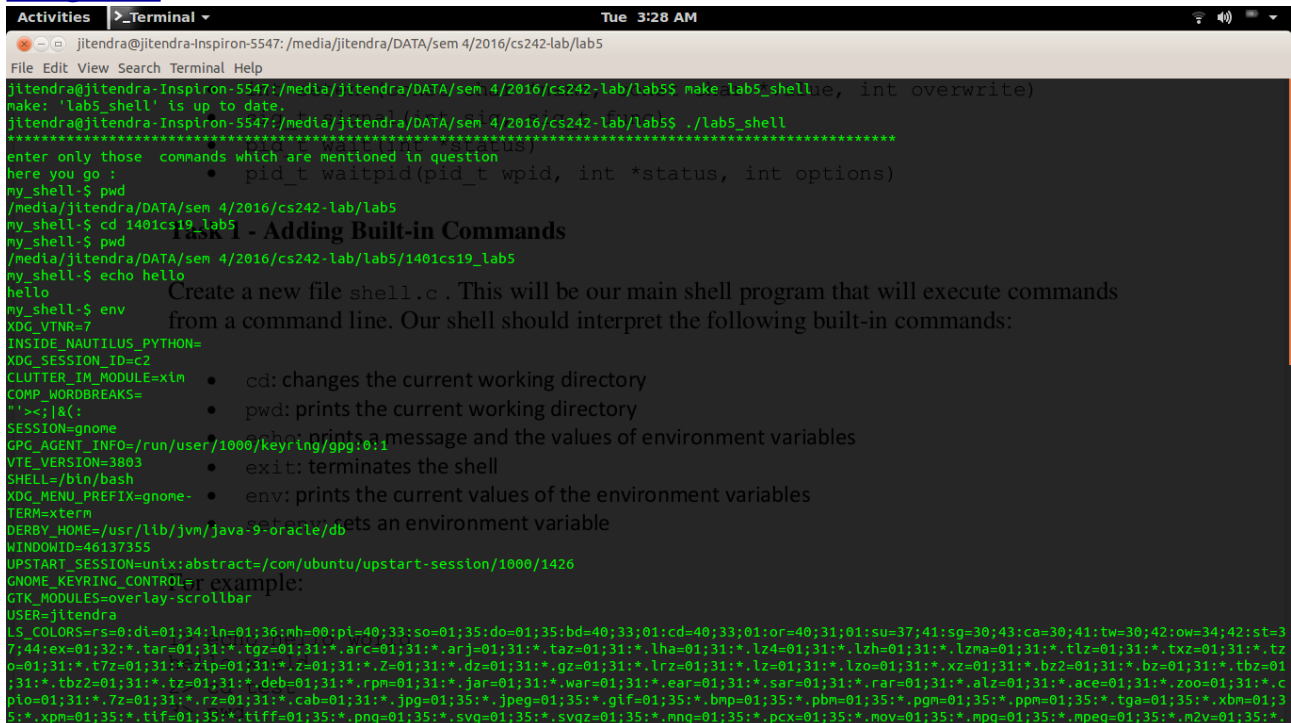
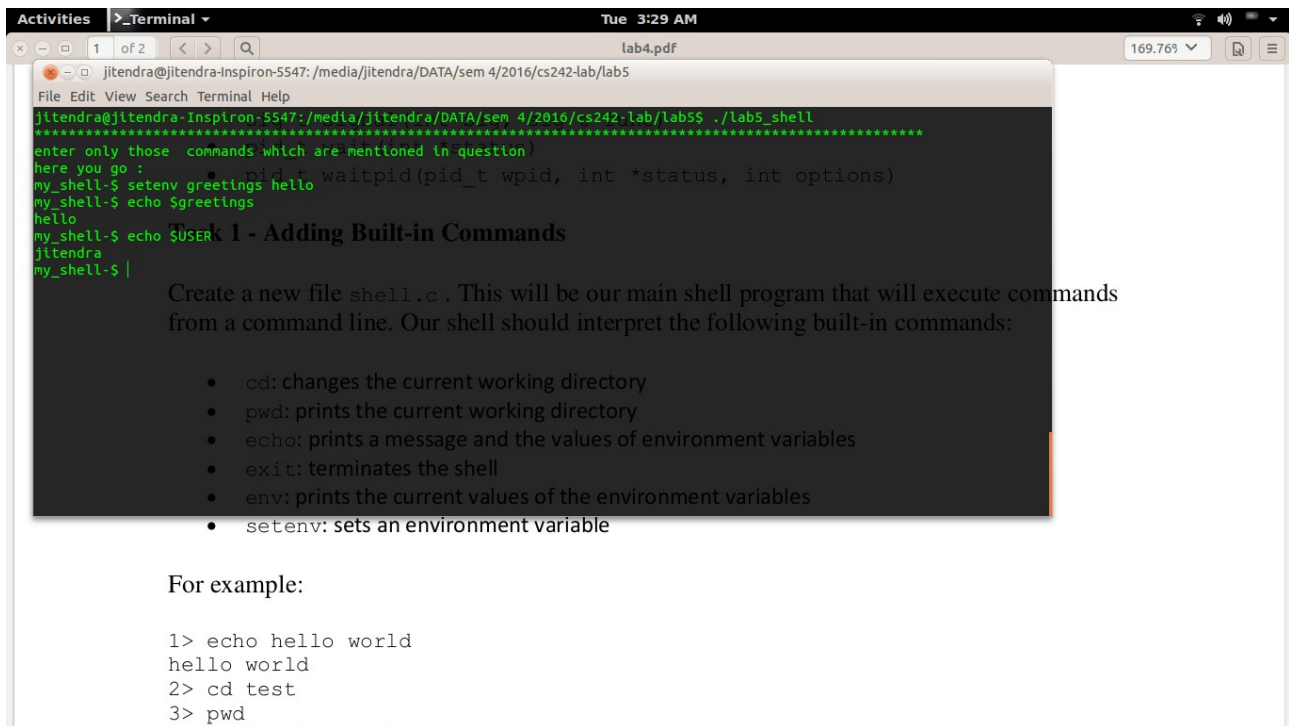


image -2





[image-4](#)

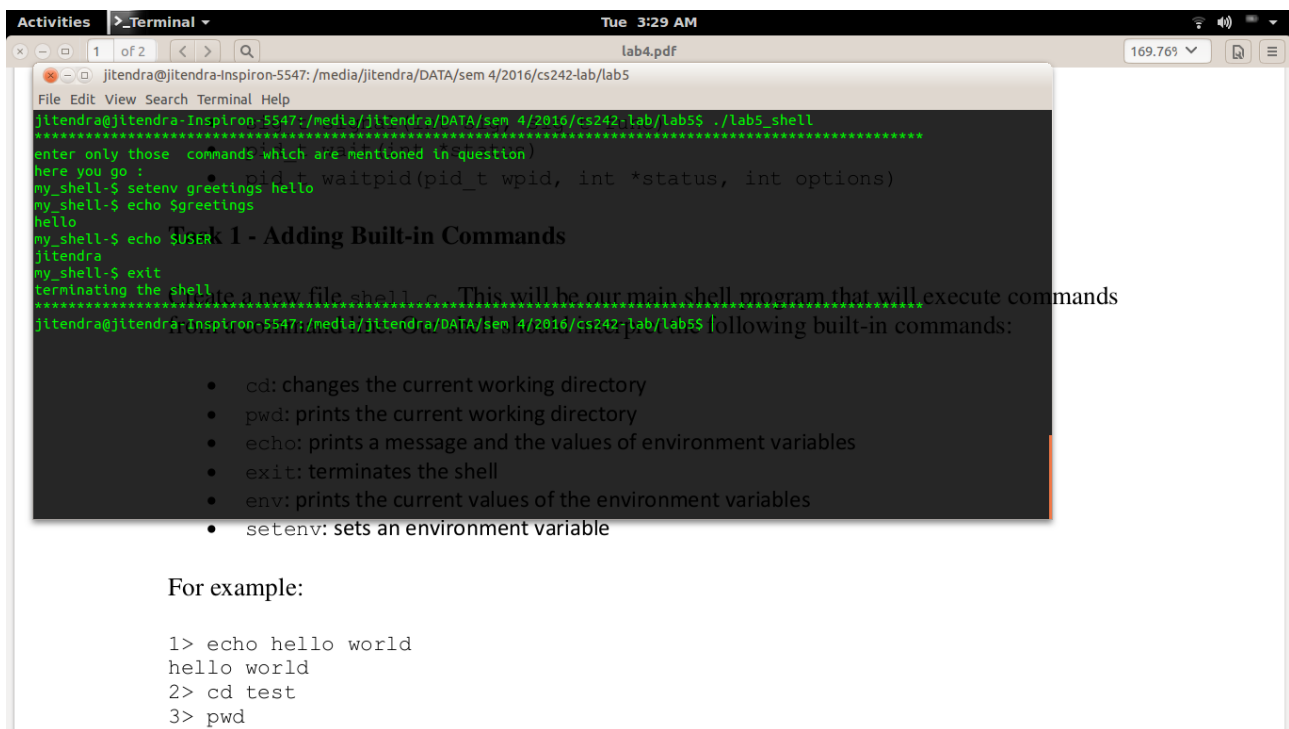


image-5

```
jitendra@jitendra-Inspiron-5547: /media/jitendra/DATA/sem 4/2016/cs242-lab/lab5
File Edit View Search Terminal Help
jitendra@jitendra-Inspiron-5547: /media/jitendra/DATA/sem 4/2016/cs242-lab/lab5$ ./lab5_shell
*****
enter only those commands which are mentioned in question)
here you go :
my_shell$ setenv greetings hello
my_shell$ echo $greetings
hello
my_shell$ echo $USER
jitendra
my_shell$ exit
terminating the shell
*****
jitendra@jitendra-Inspiron-5547: /media/jitendra/DATA/sem 4/2016/cs242-lab/lab5$
```

Task 1 - Adding Built-in Commands

Create a new file `shell.c`. This will be our main shell program that will execute commands following built-in commands:

- `cd`: changes the current working directory
- `pwd`: prints the current working directory
- `echo`: prints a message and the values of environment variables
- `exit`: terminates the shell
- `env`: prints the current values of the environment variables

```
Activities | Terminal | Tue 3:28 AM
jitendra@jitendra-Inspiron-5547: /media/jitendra/DATA/sem 4/2016/cs242-lab/lab5
File Edit View Search Terminal Help
/db/bin:/home/jitendra/bin:/usr/local/java/jdk1.8.0_72/bin:/home/jitendra/bin:/usr/local/java/jre1.8.0_72/bin:erwrite)
DESKTOP_SESSION=gnome
QT_IM_MODULE=ibus
QT_QPA_PLATFORMTHEME=appmenu-qt5
JOB=dbus
PWD=/media/jitendra/DATA/sem 4/2016/cs242-lab/lab5
JAVA_HOME=/usr/local/java/jre1.8.0_72
XMODIFIERS=@im=ibus
LANG=en_IN
GNOME_KEYRING_PID=
MANDATORY_PATH=/usr/share/gconf/gnome.mandatory.path
IM_CONFIG_PHASE=1
GDMSESSION=gnome
JAVA_TOOL_OPTIONS=-javaagent:/usr/share/java/jayatanaag.jar
SESSIONTYPE=gnome-session
HOME=/home/jitendra
SHLVL=1
XDG_SEAT=seat0
LANGUAGE=en_IN:en
GNOME_DESKTOP_SESSION_ID=this-is-deprecated
XDG_SESSION_DESKTOP=gnome
LOGNAME=jitendra
XDG_DATA_DIRS=/usr/share/gnome:/usr/local/share/:/usr/share/
DBUS_SESSION_BUS_ADDRESS=unix:abstract=/tmp/dbus-ZVMS20gs08
QT4_IM_MODULE=xim
J2SDKDIR=/usr/lib/jvm/java-9-oracle
LESSOPEN=| /usr/bin/lesspipe %s
WINDOWPATH=7
INSTANCE=
DISPLAY=:0.0
XDG_RUNTIME_DIR=/run/user/1000
XDG_CURRENT_DESKTOP=GNOME
GTK_IM_MODULE=ibus
J2REDIR=/usr/lib/jvm/java-9-oracle
LESSCLOSE=/usr/bin/lesspipe %s %s
XAUTHORITY=/var/run/gdm/auth-for-jitendra-xy9XT6/database
_=./lab5_shell
my_shell$ |
```

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Create a new file `shell.c`. This will be our main shell program that will execute commands following built-in commands:

- `cd`: changes the current working directory
- `pwd`: prints the current working directory
- `echo`: prints a message and the values of environment variables
- `env`: prints the current values of the environment variables
- `env`: sets an environment variable

For example:

```
1> echo hello world
2> cd
3> pwd
```