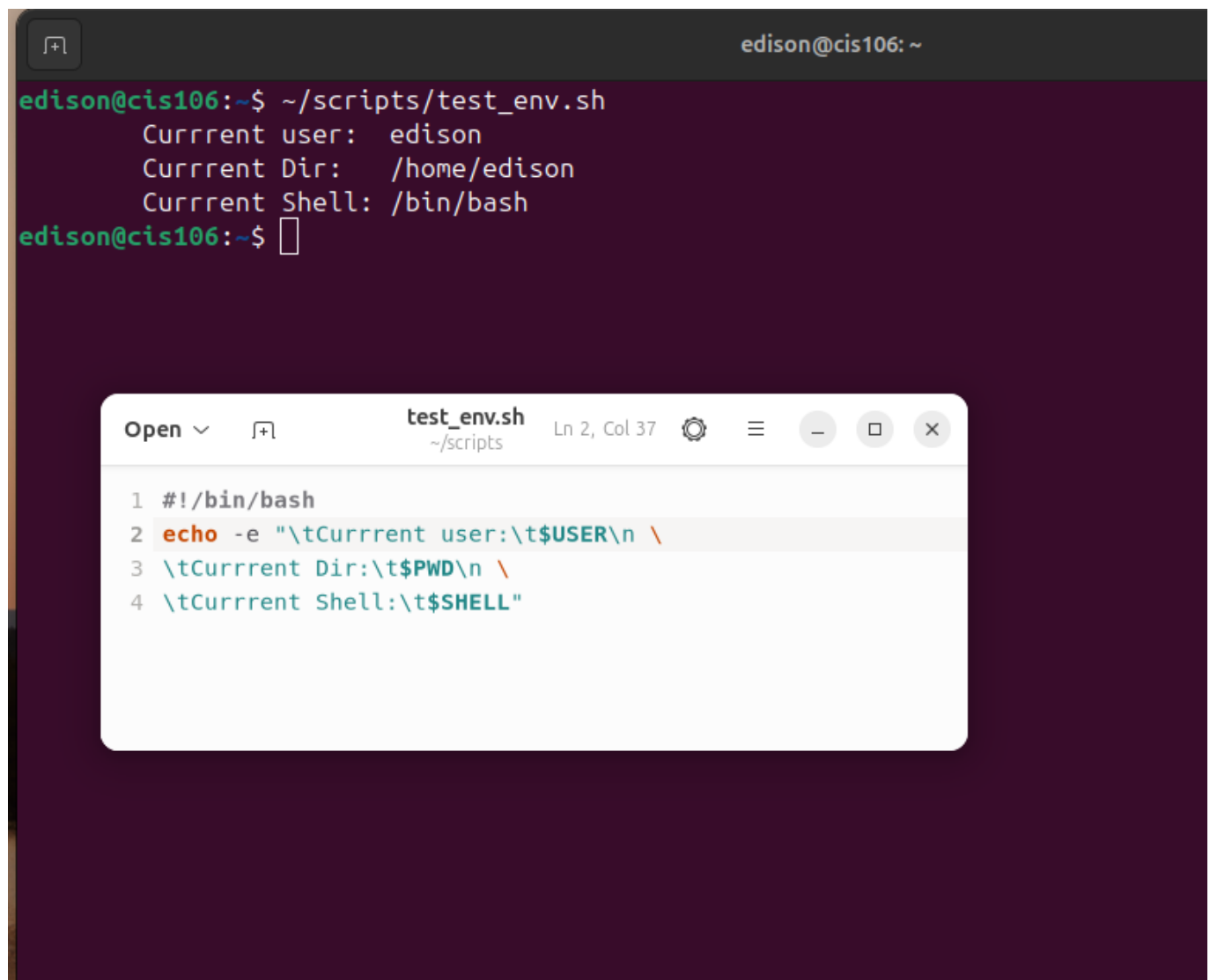


## Extra 4

---

p1



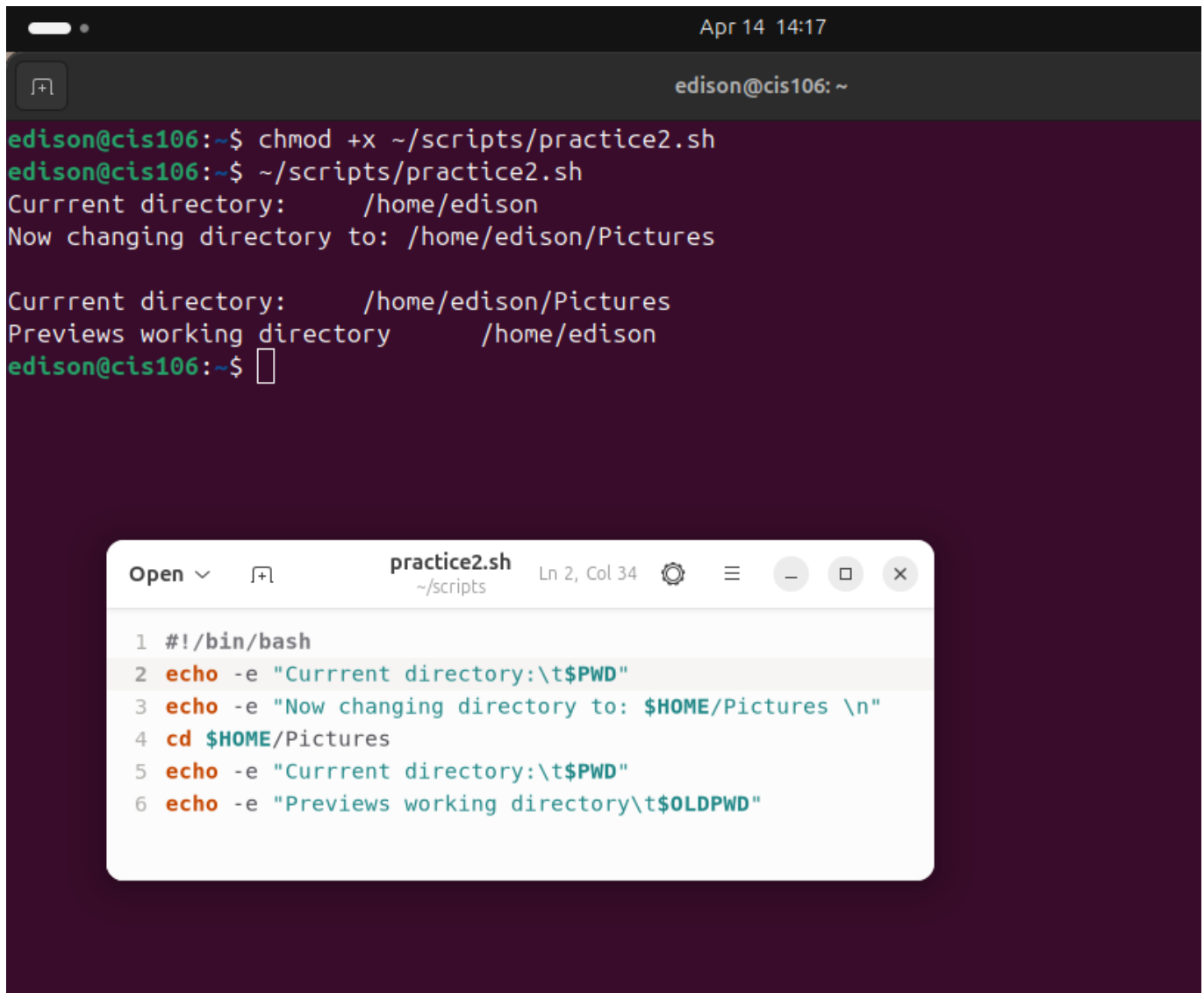
The image shows a terminal window with a dark purple background. The prompt is `edison@cis106: ~`. The user has executed the command `~/scripts/test_env.sh`. The output of the script is:

```
Current user:  edison
Current Dir:   /home/edison
Current Shell: /bin/bash
```

The prompt is now `edison@cis106:~$` followed by a cursor. Overlaid on the terminal is a code editor window titled `test_env.sh` with the path `~/scripts`. The editor shows the following content:

```
1 #!/bin/bash
2 echo -e "\tCurrent user:\t$USER\n \
3 \tCurrent Dir:\t$PWD\n \
4 \tCurrent Shell:\t$SHELL"
```

p2



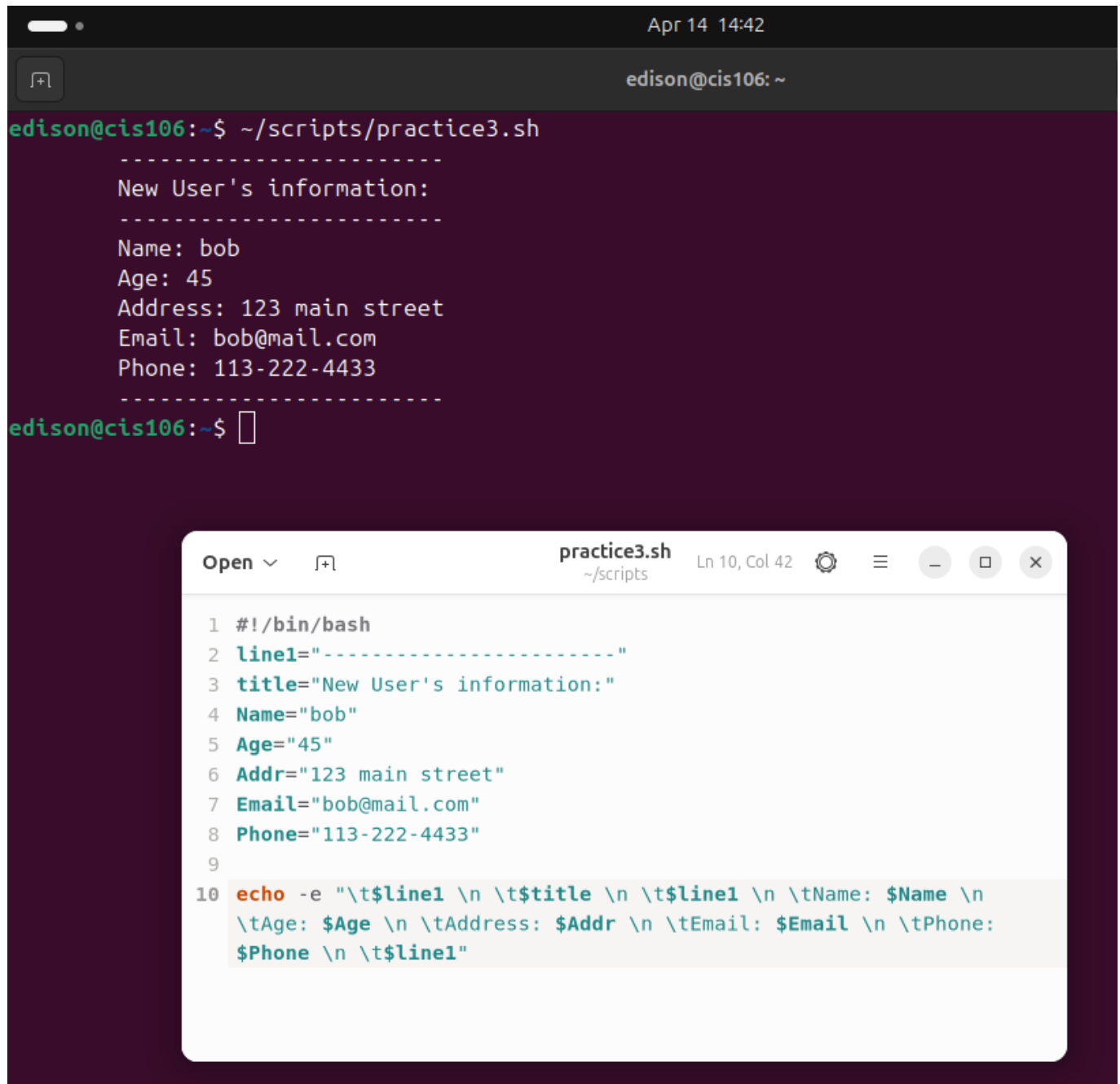
The image shows a terminal window with a dark purple background. At the top, the system clock shows 'Apr 14 14:17' and the user is 'edison@cis106: ~'. The terminal output shows the execution of a script 'practice2.sh'. The script first changes permissions, then prints the current directory ('/home/edison'), changes to '/home/edison/Pictures', prints the new directory, and prints the 'Previews working directory' as '/home/edison'. Below the terminal, a preview window titled 'practice2.sh' shows the script's source code with line numbers 1 through 6.

```
edison@cis106:~$ chmod +x ~/scripts/practice2.sh
edison@cis106:~$ ~/scripts/practice2.sh
Current directory:      /home/edison
Now changing directory to: /home/edison/Pictures

Current directory:      /home/edison/Pictures
Previews working directory      /home/edison
edison@cis106:~$
```

```
1 #!/bin/bash
2 echo -e "Current directory:\t$PWD"
3 echo -e "Now changing directory to: $HOME/Pictures \n"
4 cd $HOME/Pictures
5 echo -e "Current directory:\t$PWD"
6 echo -e "Previews working directory\t$OLDPWD"
```

p3



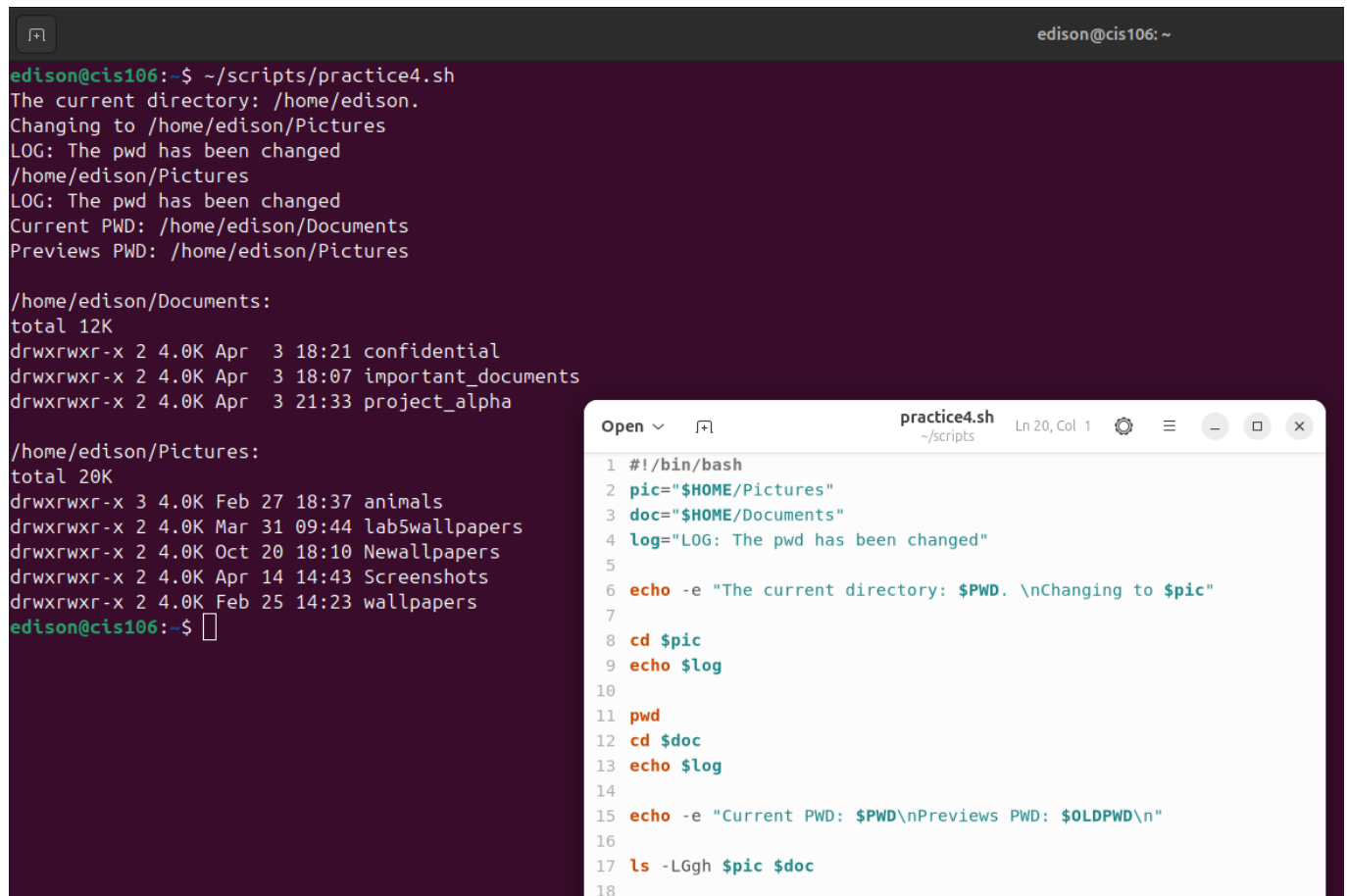
The image shows a terminal window and a code editor window. The terminal window, titled 'edison@cis106: ~', shows the execution of a script `~/scripts/practice3.sh`. The script outputs the following text:

```
-----  
New User's information:  
-----  
Name: bob  
Age: 45  
Address: 123 main street  
Email: bob@mail.com  
Phone: 113-222-4433  
-----  
edison@cis106:~$
```

The code editor window, titled 'practice3.sh' and located at `~/scripts`, shows the source code of the script. The code is as follows:

```
1 #!/bin/bash  
2 line1="-----"  
3 title="New User's information:"  
4 Name="bob"  
5 Age="45"  
6 Addr="123 main street"  
7 Email="bob@mail.com"  
8 Phone="113-222-4433"  
9  
10 echo -e "\t$line1 \n \t$title \n \t$line1 \n \tName: $Name \n  
 \tAge: $Age \n \tAddress: $Addr \n \tEmail: $Email \n \tPhone:  
 $Phone \n \t$line1"
```

p4



```
edison@cis106: ~  
edison@cis106:~$ ~/scripts/practice4.sh  
The current directory: /home/edison.  
Changing to /home/edison/Pictures  
LOG: The pwd has been changed  
/home/edison/Pictures  
LOG: The pwd has been changed  
Current PWD: /home/edison/Documents  
Previews PWD: /home/edison/Pictures  
  
/home/edison/Documents:  
total 12K  
drwxrwxr-x 2 4.0K Apr  3 18:21 confidential  
drwxrwxr-x 2 4.0K Apr  3 18:07 important_documents  
drwxrwxr-x 2 4.0K Apr  3 21:33 project_alpha  
  
/home/edison/Pictures:  
total 20K  
drwxrwxr-x 3 4.0K Feb 27 18:37 animals  
drwxrwxr-x 2 4.0K Mar 31 09:44 lab5wallpapers  
drwxrwxr-x 2 4.0K Oct 20 18:10 Newallpapers  
drwxrwxr-x 2 4.0K Apr 14 14:43 Screenshots  
drwxrwxr-x 2 4.0K Feb 25 14:23 wallpapers  
edison@cis106:~$
```

```
practice4.sh  Ln 20, Col 1  
~/scripts  
1  #!/bin/bash  
2  pic="$HOME/Pictures"  
3  doc="$HOME/Documents"  
4  log="LOG: The pwd has been changed"  
5  
6  echo -e "The current directory: $PWD. \nChanging to $pic"  
7  
8  cd $pic  
9  echo $log  
10  
11 pwd  
12 cd $doc  
13 echo $log  
14  
15 echo -e "Current PWD: $PWD\nPreviews PWD: $OLDPWD\n"  
16  
17 ls -LGgh $pic $doc  
18
```