

QUESTION 4 ANSWERS

```
coder@fce7ae72477b:~$ vi emails.txt
coder@fce7ae72477b:~$ vi emailcleaner.sh
coder@fce7ae72477b:~$ chmod +x email
emailcleaner.sh  emails.txt
coder@fce7ae72477b:~$ chmod +x emailcleaner.sh
coder@fce7ae72477b:~$ ./emailcleaner.sh
coder@fce7ae72477b:~$ cat valid.txt
abc123@gmail.com
hello123@world.com
john99@company.com
coder@fce7ae72477b:~$ cat in
install/    invalid.txt
coder@fce7ae72477b:~$ cat invalid.txt
test.user@yahoo.com
invalid@email
@abc.com
user@site.org
HELLO@TEST.COM

coder@fce7ae72477b:~$
```

```
File Edit View Terminal Tabs Help  
abc123@gmail.com  
test.user@yahoo.com  
john99@company.com  
abc123@gmail.com  
invalid@email  
@abc.com  
user@site.org  
hello123@world.com  
HELLO@TEST.COM
```

A screenshot of a terminal window titled "Terminal - coder@dce7ae72477b: ~". The window has a menu bar with "File", "Edit", "View", "Terminal", "Tabs", and "Help". The main area contains the following bash script:

```
#!/bin/bash
grep -E '^[A-Za-z0-9]+@[A-Za-z]+\.\com$' emails.txt > valid.txt
grep -Ev '^[A-Za-z0-9]+@[A-Za-z]+\.\com$' emails.txt > invalid.txt
sort valid.txt | uniq > temp.txt
mv temp.txt valid.txt
```

The terminal shows a cursor at the end of the last line. Below the terminal window, the status bar displays the file name "emailcleaner.sh", line count "7L", character count "198C", and a "All" indicator.

I wrote a script to process email addresses from `emails.txt` and classify them as valid or invalid using regular expressions with `grep`. Valid email addresses are stored in `valid.txt` and invalid ones in `invalid.txt`. Duplicate entries in `valid.txt` are removed using `sort` and `uniq`.