#change directory from home to local directory

cd /Users/chenjie/Desktop/GitHub/ACST890

#log into the linux machine

ssh -i 43372910.pem [ubuntu@ec2-54-206-122-41.ap-southeast-2.compute.amazonaws.com](mailto:ubuntu@ec2-54-206-122-41.ap-southeast-2.compute.amazonaws.com)

#Question (a) download the shell file from the website

wget <http://www.staff.hs-mittweida.de/~wuenschi/data/media/compbiolbook/chapter-11-regex--structure.pdb>

#rename it as “structure.pdb”

mv chapter-11-regex--structure.pdb structure.pdb

#make the shell file executable

chmod u+x structure.pdb

#check whether shell is executable

ls –l structure.pdb

#change Beisel’s name to Weisel

sed ‘s/Beisel/Weisel/’ structure.pdb

#Question (b) Delete the first three lines of the file

sed ‘1,3d’ structure.pdb

#Question (C) print only lines 5 through 10

sed –n ‘5,10p’ structure.pdb

#Question (d) Delete lines containing the word MET

sed ‘/MET/d’ structure.pdb

#Question e print all lines where the HELIX line contains the word ILE

sed –n ‘/HELIX.\*ILE/p’ structure.pdb

#Qestion (f) Append three stars to the end of lines starting with “H”.

sed ‘/^H/s/$/\*\*\*/’ structure.pdb

#Question (g) Replace the lines containing SEQRES with SEQ

sed ‘/SEQRES/s/^.\*$/SEQ/’ structure.pdb

#question h

#upload the file to AWS account and make it executable

scp -i 43372910.pem jabberwocky.txt ubuntu@ec2-54-206-122-41.ap-southeast-2.compute.amazonaws.com:

chmod u+x jabberwocky.txt

#delete all the blank line of the file

sed '/^$/d' jabberwocky.txt