

Assignment1

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1/31/2019

All work was done through rstudio.cloud.

Question 1

Used **wget https://en.wikipedia.org/wiki/Alexander_the_Great** in unix terminal to retrieve the full webpage html and css code plus the text of Alexander the great. Using **wc -l** gives **3547** lines from unix terminal.

Question 2

Forked repository to the Rstudio cloud home directory /cloud/rstudio-user. created folder Test into /cloud/rstudio-user/ds4bme. Added a R markdown file called readme.md, that is being edited right now, into the newly created Test folder made using **mkdir Test** from terminal. Taking screenshot up to this point. Found in **figure 1**.

Question 3

Issued a pull request to the course repository. Created a screenshot -> question3.PNG attached below. Found in **figure 2**.

Question 4

Created new github repo called ds4bmeTest with added readme.md file. Found in **figure 3**.

Question 5

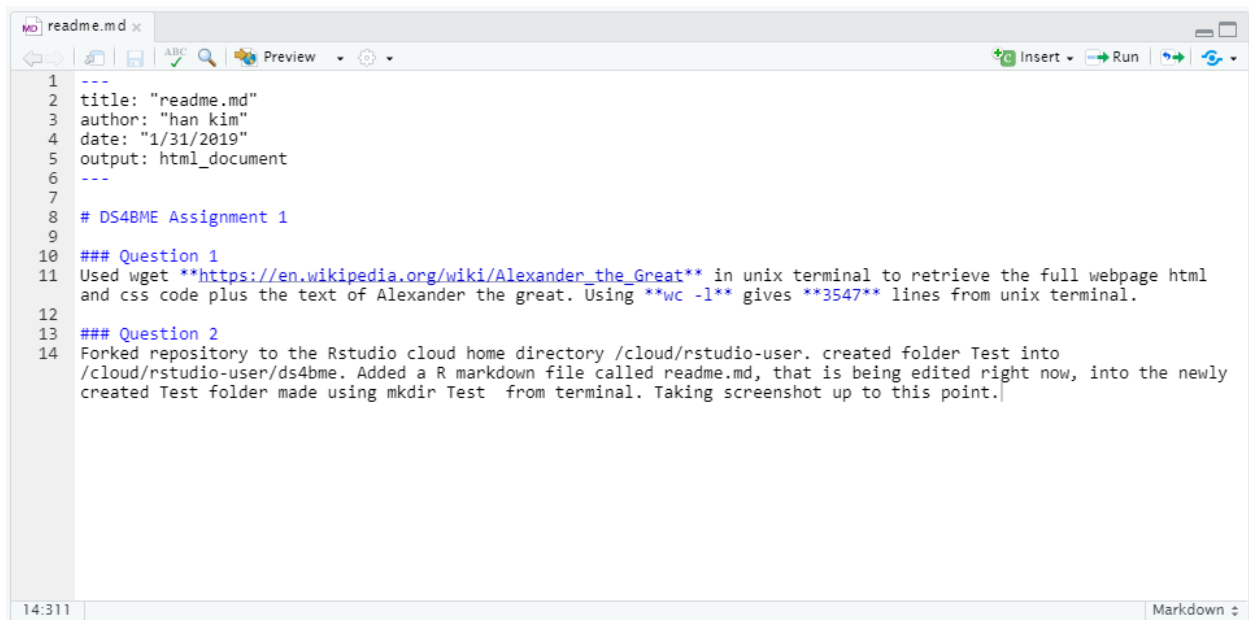
Created and deployed a tempate webpage on github.io/hkim171 then edited some of the html content and included my own image.

Question 6

Bash script file lsfile.sh. Takes in argument ./lsfile.sh PATH(/cloud/project/ds4bme) outfile(ds4bmepaths). **chmod 775** was used to make lsfile.sh executable without needing to use bash command first. Outfile.txt contains the path directory created from the ls command. Screenshots in **figure 4 & 5**.

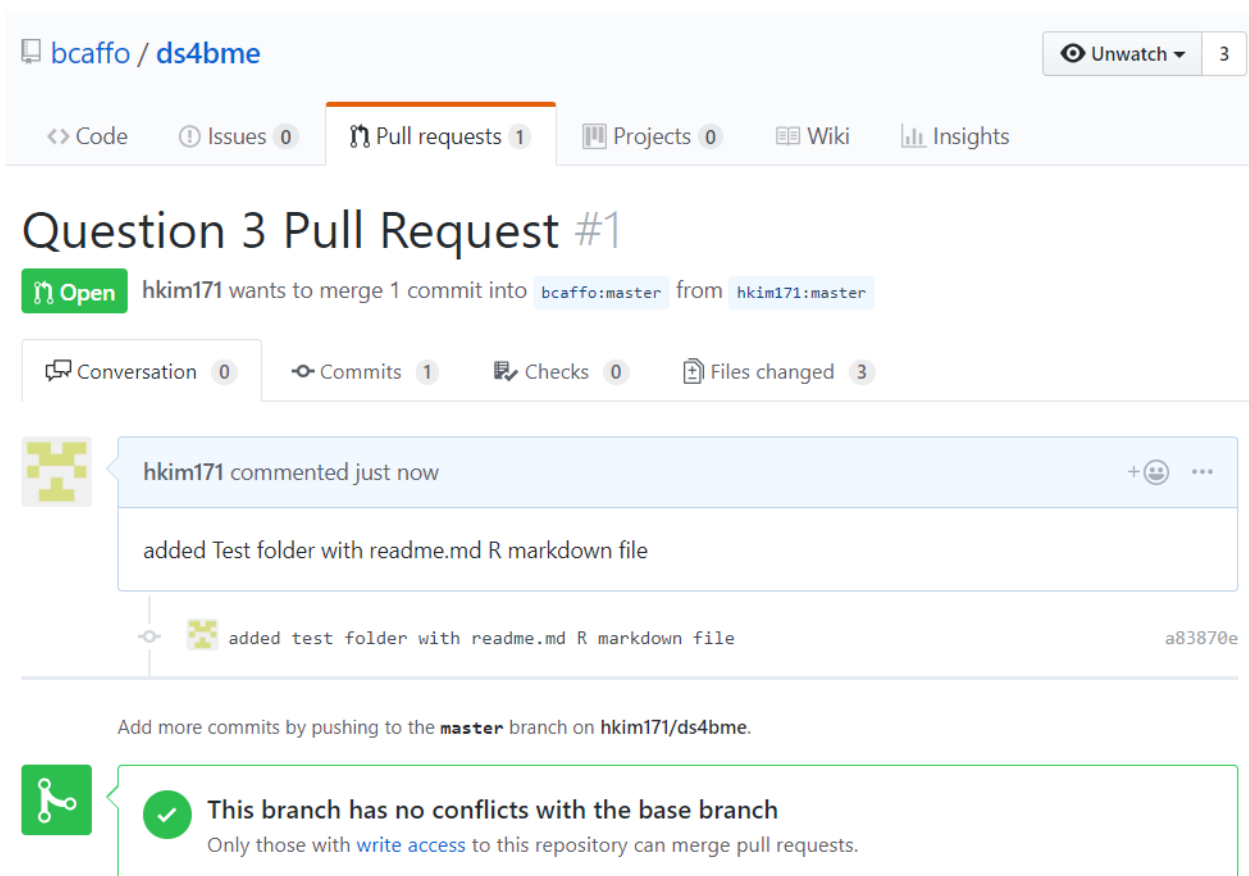
Question 7

Modified above bash script by using find command instead to recognize only .dcm files by using *.dcm. the dcmreader.sh file takes in two arguments. 1. directory where to start searching to search all subdirectories within the selected directory 2. the output file name and which directroy the .dcm file is which will be saved as a .txt. Multiple test folders including dummy .dcm files were used to test and validate script as seen in **figure 6 & 7**



```
1 ---
2 title: "readme.md"
3 author: "han kim"
4 date: "1/31/2019"
5 output: html_document
6 ---
7
8 # DS4BME Assignment 1
9
10 ### Question 1
11 Used wget **https://en.wikipedia.org/wiki/Alexander_the_Great** in unix terminal to retrieve the full webpage html
12 and css code plus the text of Alexander the great. Using **wc -l** gives **3547** lines from unix terminal.
13
14 ### Question 2
15 Forked repository to the Rstudio cloud home directory /cloud/rstudio-user. created folder Test into
16 /cloud/rstudio-user/ds4bme. Added a R markdown file called readme.md, that is being edited right now, into the newly
17 created Test folder made using mkdir Test from terminal. Taking screenshot up to this point.
```

Figure 1: Q2 screenshot of Rmarkdown File.



bcaffo / ds4bme

Unwatch 3

Code Issues 0 Pull requests 1 Projects 0 Wiki Insights

Question 3 Pull Request #1

Open hkim171 wants to merge 1 commit into bcaffo:master from hkim171:master

Conversation 0 Commits 1 Checks 0 Files changed 3

hkim171 commented just now

added Test folder with readme.md R markdown file

added test folder with readme.md R markdown file a83870e

Add more commits by pushing to the **master** branch on hkim171/ds4bme.



  **This branch has no conflicts with the base branch**
Only those with [write access](#) to this repository can merge pull requests.

Figure 2: Q3 screenshot of Pull request.

hkim171 / ds4bmeTest

Private

Watch 0
Star 0
Fork 0

<> Code
Issues 0
Pull requests 0
Projects 0
Wiki
Insights
Settings

No description, website, or topics provided.

Edit

[Manage topics](#)

2 commits
1 branch
0 releases
0 contributors

Branch: master
New pull request
Create new file
Upload files
Find file
Clone or download

hkim171 updated readme.md

Latest commit 95f3d53 just now

.Rhistry	updated readme.md	just now
readme.md	updated readme.md	just now

readme.md

This is the readme.md file created for Question number 4.

Figure 3: Q4 screenshot of repo and readme.md file.

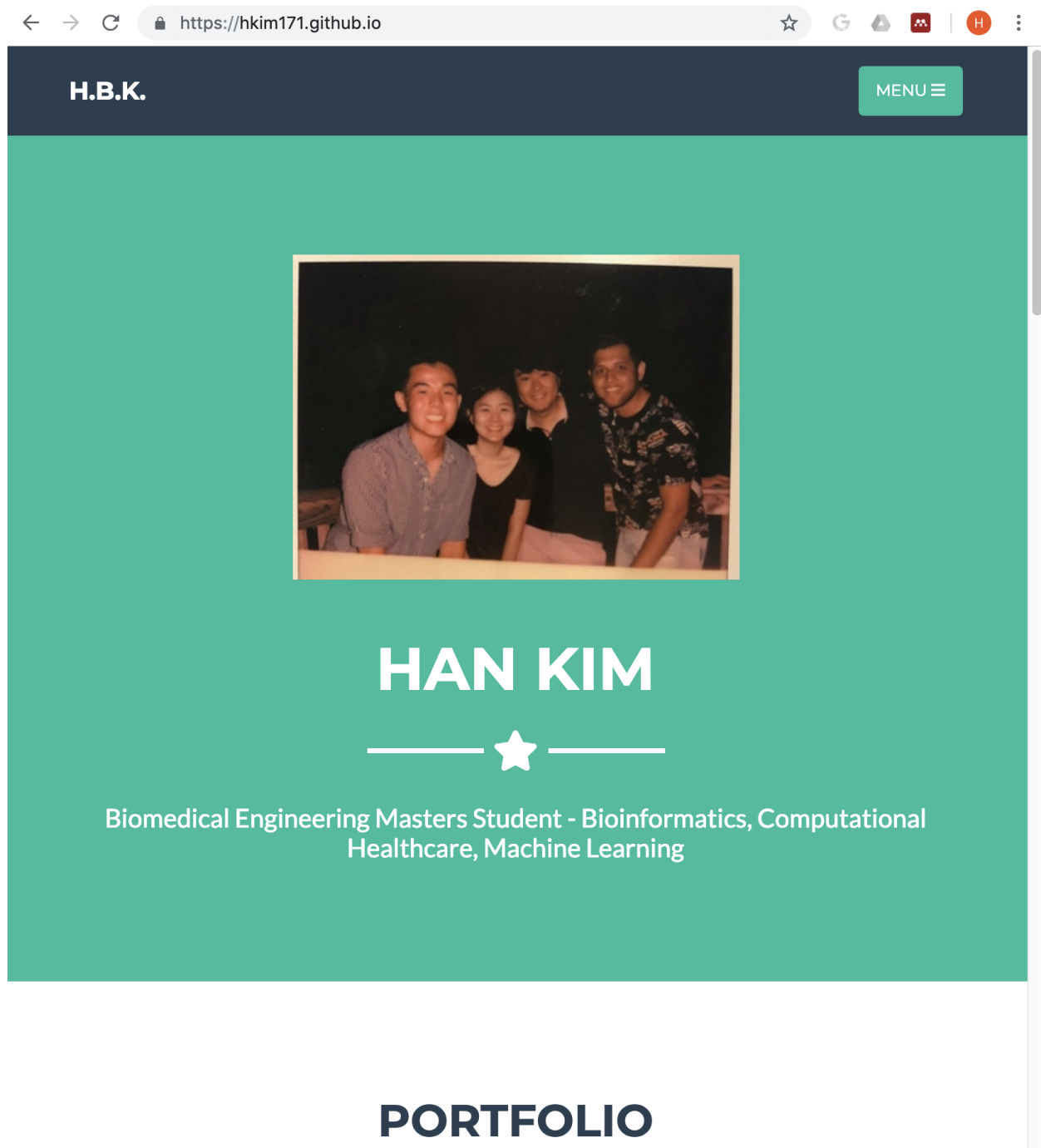
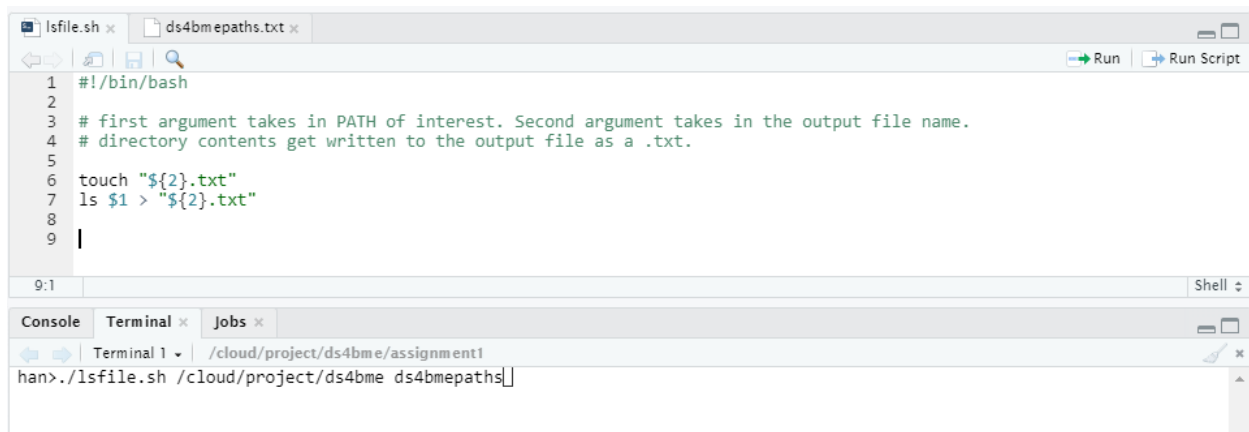


Figure 4: Q5 screenshot of github.io/hkim171 webpage.



```
lsfile.sh x ds4bmepaths.txt x
1 #!/bin/bash
2
3 # first argument takes in PATH of interest. Second argument takes in the output file name.
4 # directory contents get written to the output file as a .txt.
5
6 touch "${2}.txt"
7 ls $1 > "${2}.txt"
8
9 |
9:1 Shell
```

Console Terminal x Jobs x

Terminal 1 | /cloud/project/ds4bme/assignment1

han>./lsfile.sh /cloud/project/ds4bme ds4bmepaths|

Figure 5: Q6a screenshot of lsfile path outfile. path = ds4bme repo.



```
lsfile.sh x ds4bmepaths.txt x
1 README.md
2 Test
3 assignment1
4 assignment1.md
5 assignment2.md
6 calendar.md
7 class1.md
8 class2.md
9 data
10 dataScienceTools.md
11 ddp.md
12 eda.md
13 evaluation.md
14 inference.md
15 lessonslearned.md
16 motivation.md
17 probability.md
18 reproducible.md
19 resources.md
20 rprogramming.md
21
1:1
```

Console Terminal x Jobs x

Terminal 1 | /cloud/project/ds4bme/assignment1

han>./lsfile.sh /cloud/project/ds4bme ds4bmepaths
han>|

Figure 6: Q6b screenshot of outfile ds4bmepaths.txt of repo directory.

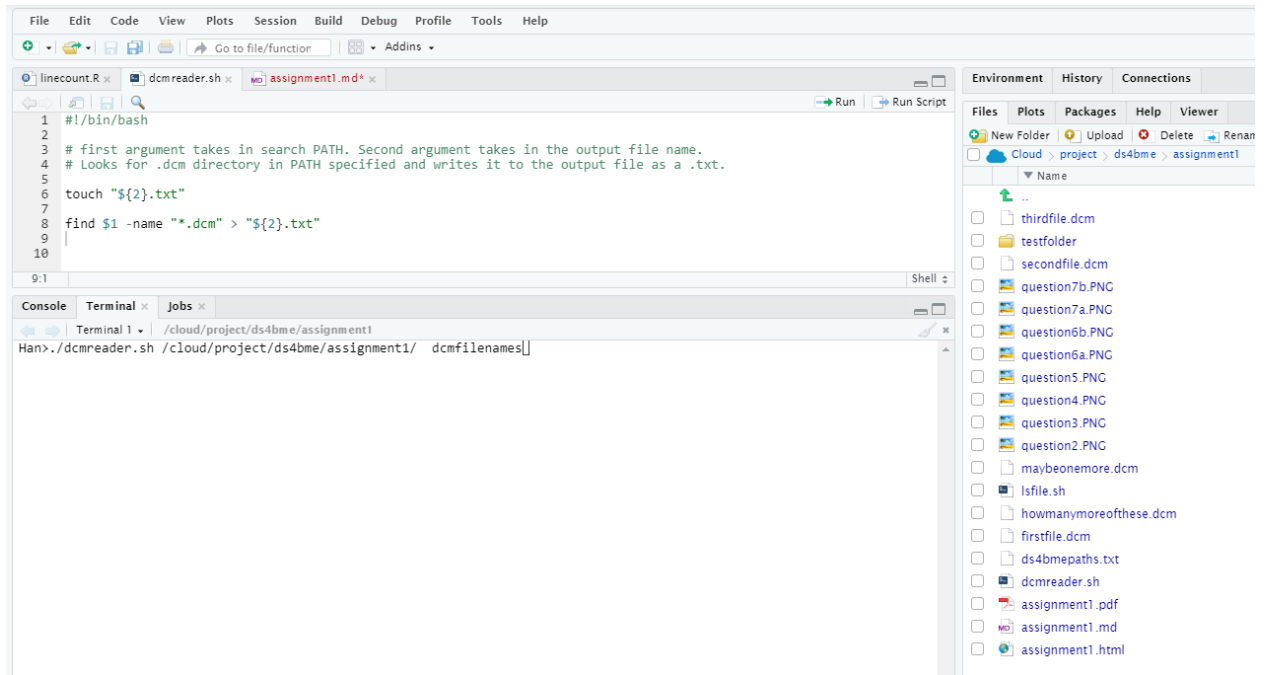


Figure 7: Q7a screenshot of `./dcmreader.sh` PATH outputfile_name as well as directory which is shown to include a couple .dcm files created using unix touch command.

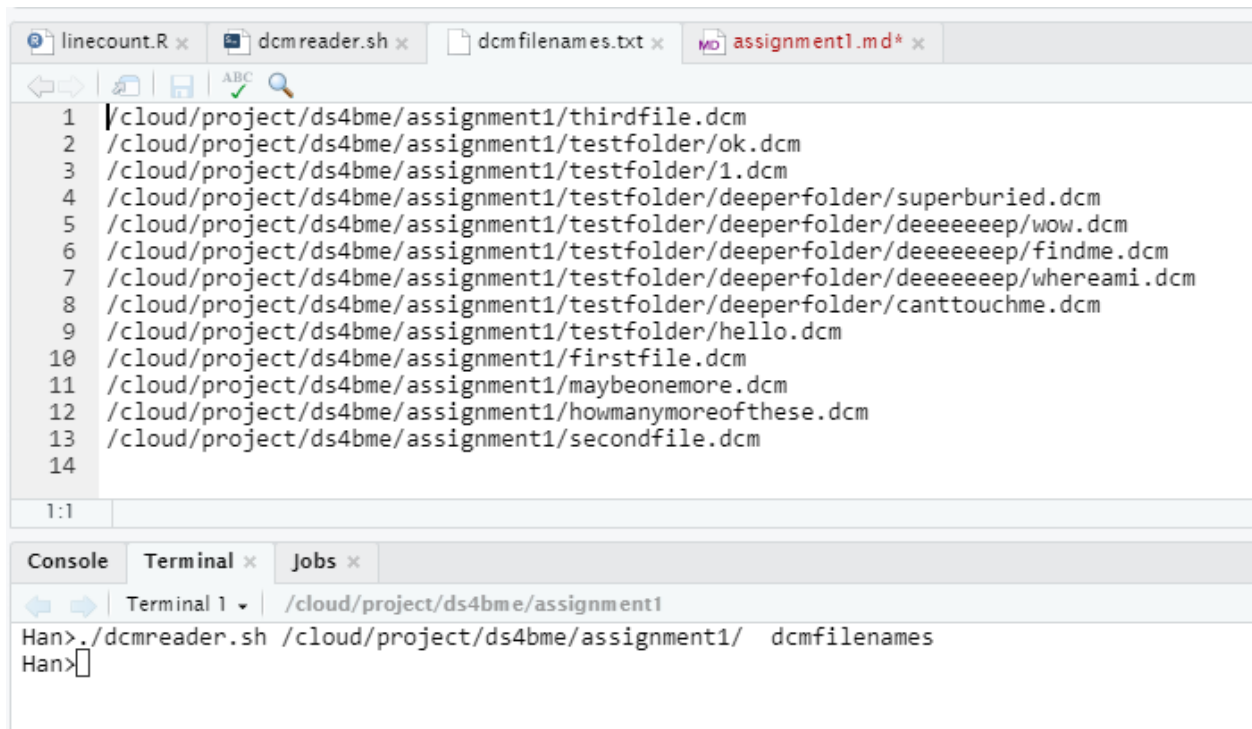


Figure 8: Q7b screenshot of output text file `ds4bme.txt` after the unix script is run. it contains the path + file name all ending in .dcm as instructed.