Assignment1

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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**

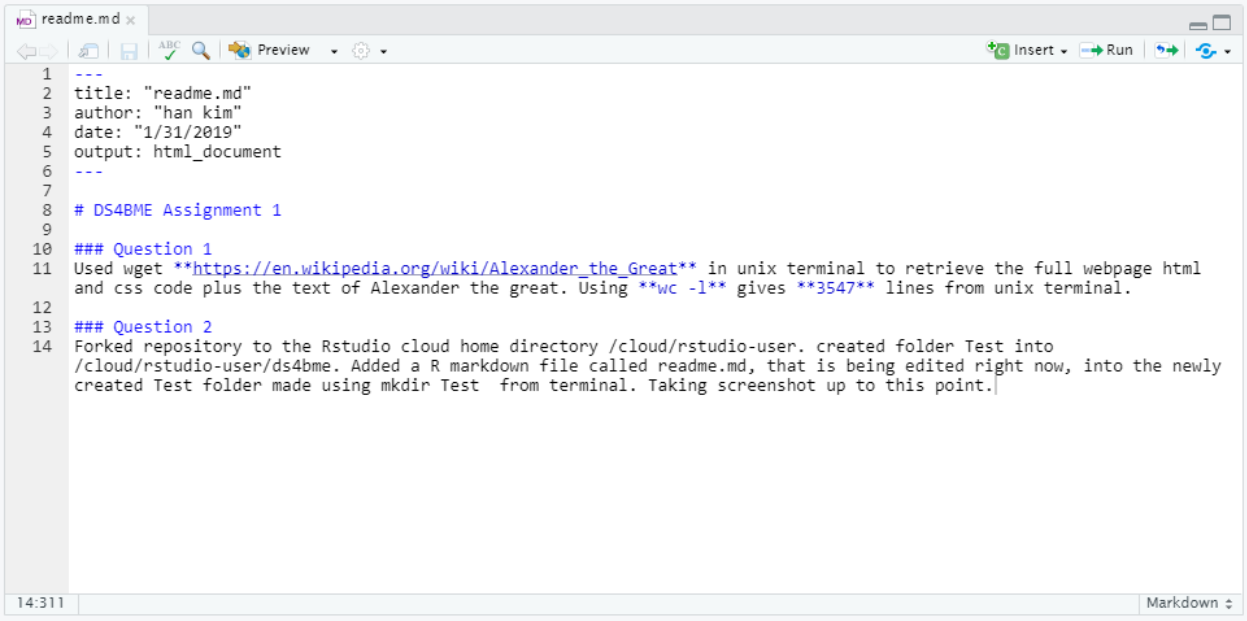

Figure 1: Q2 screenshot of Rmarkdown File.

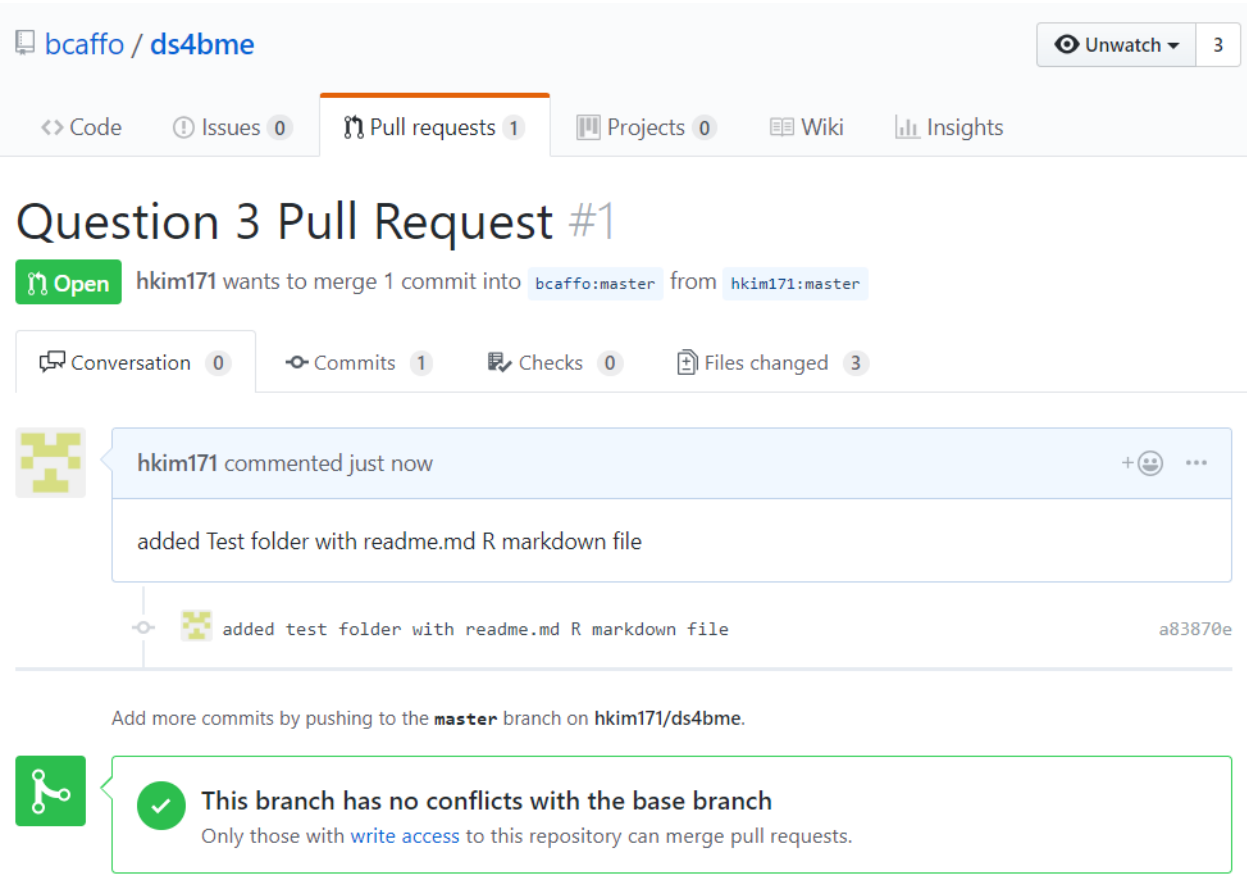

Figure 2: Q3 screenshot of Pull request.

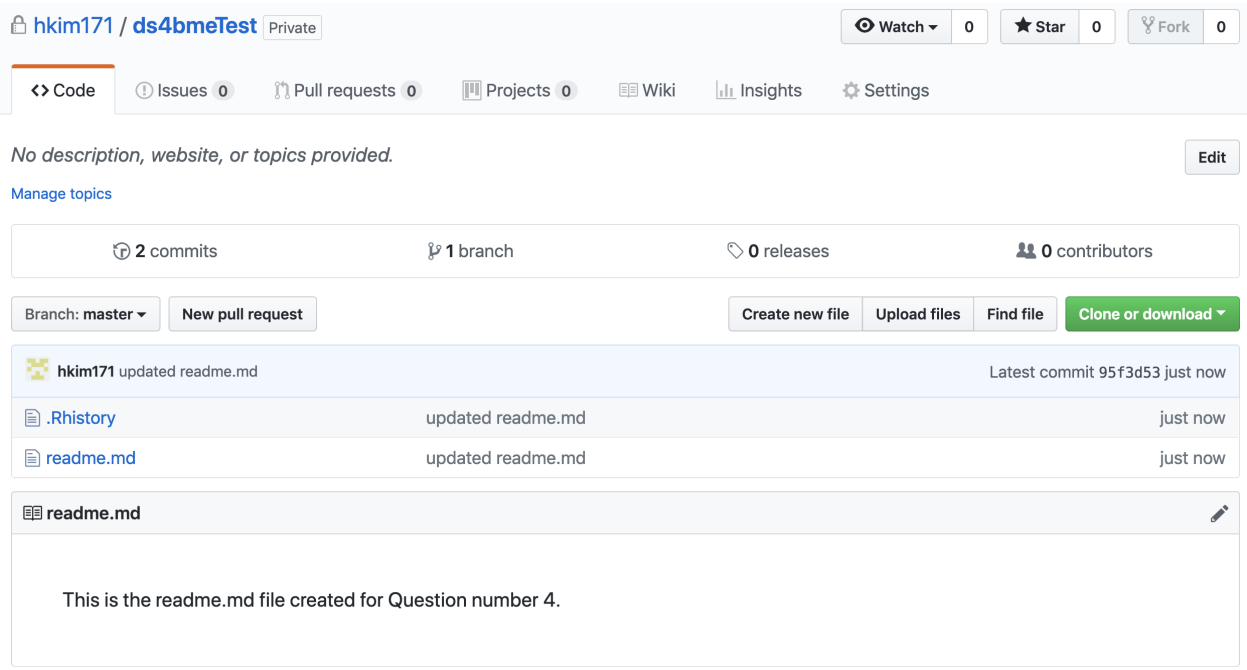

Figure 3: Q4 screenshot of repo and readme.md file.

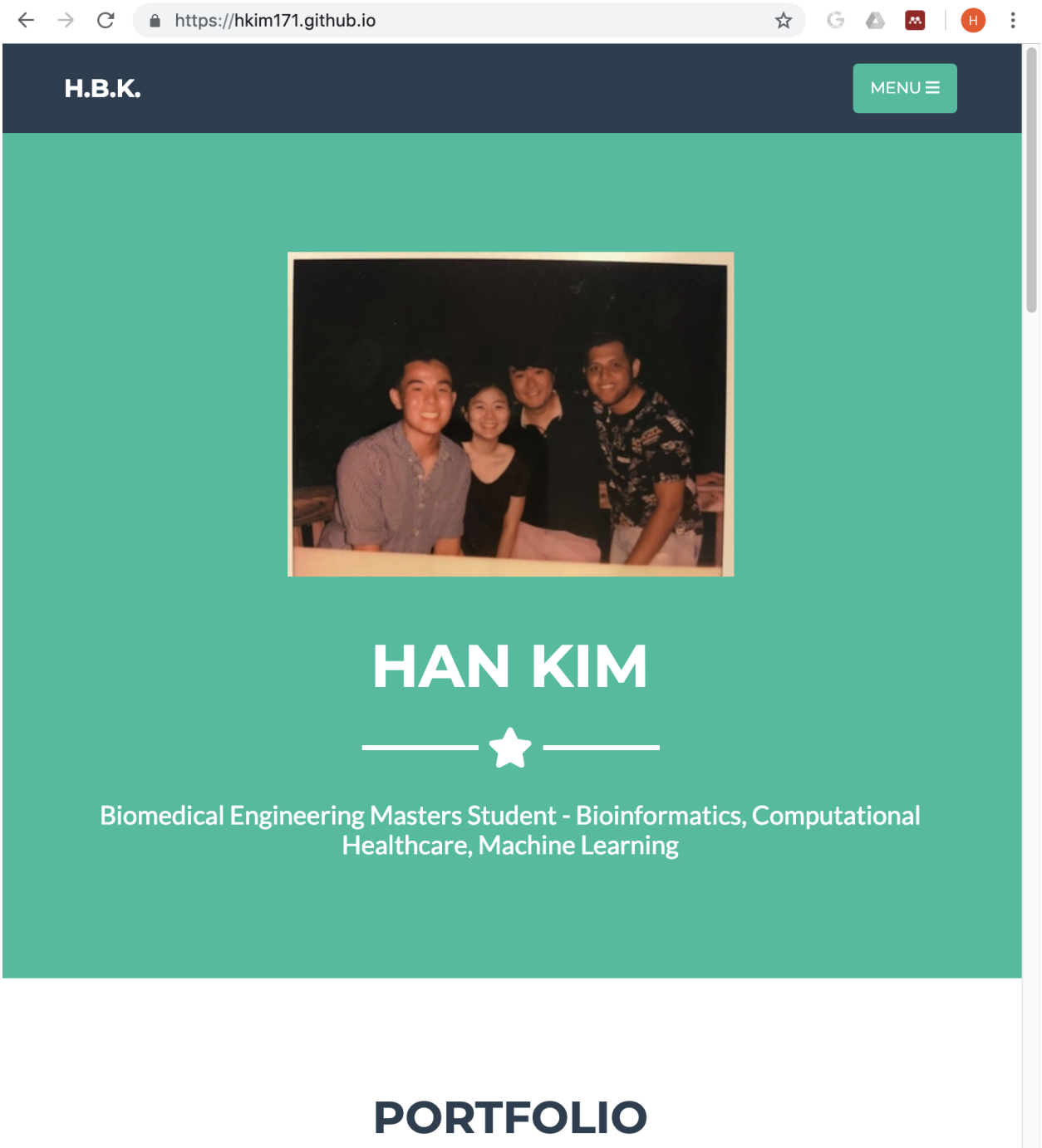

Figure 4: Q5 screenshot of github.io/hkim171 webpage.

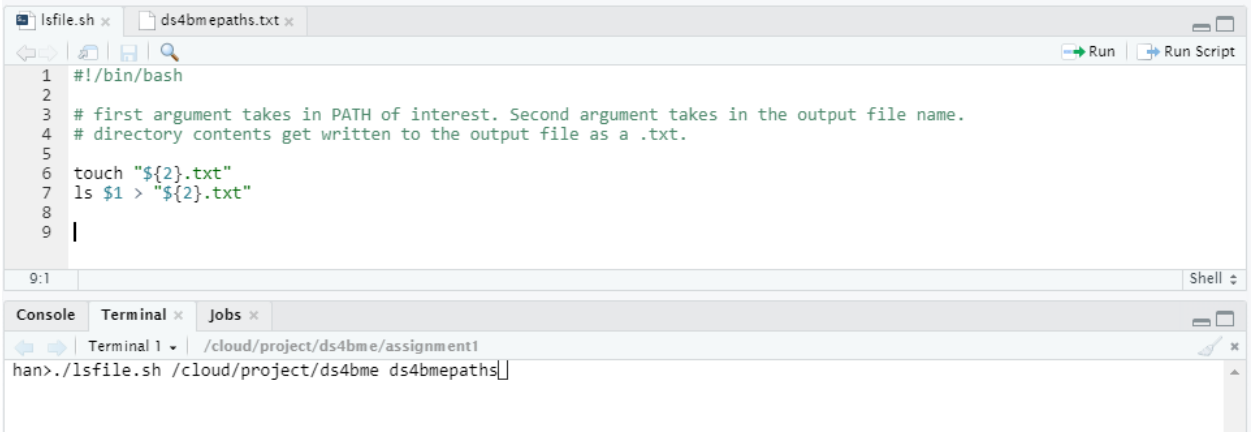

Figure 5: Q6a screenshot of lsfile path outfile. path = ds4bme repo.

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

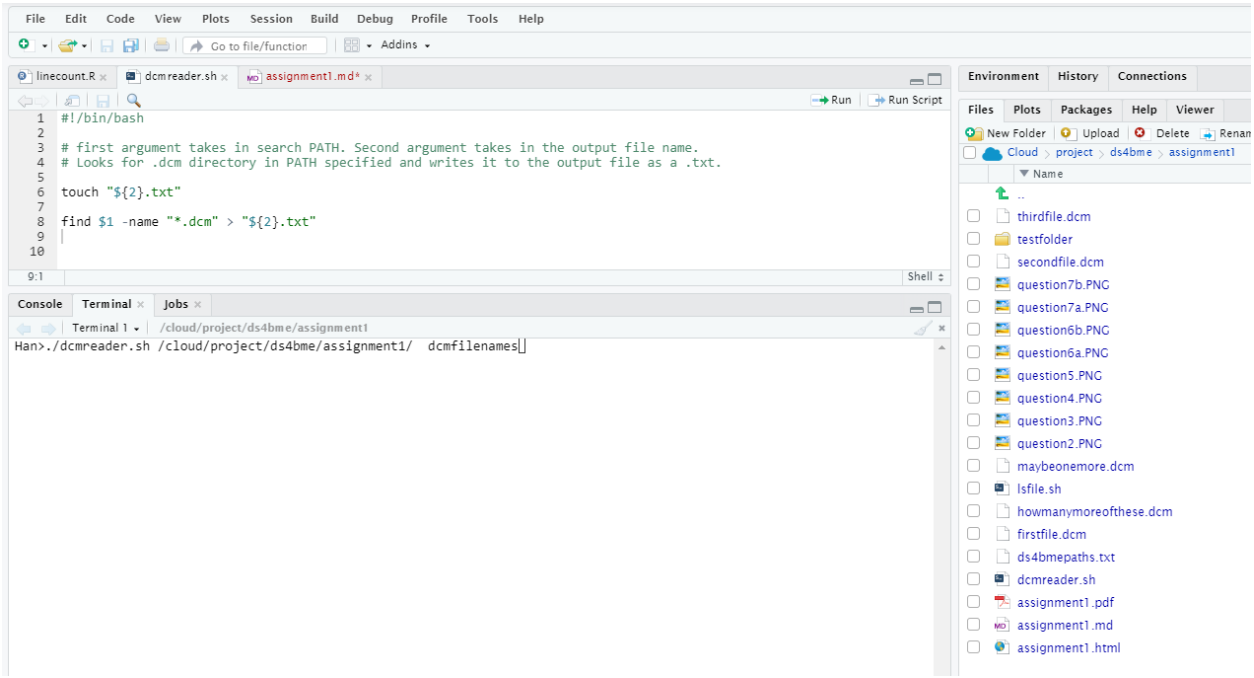

Figure 7: Q7a screenshot of ./dcmreader.sh PATH outputfile_name as well as directory which is shown to include a couple .dcm files created using unix touch command.

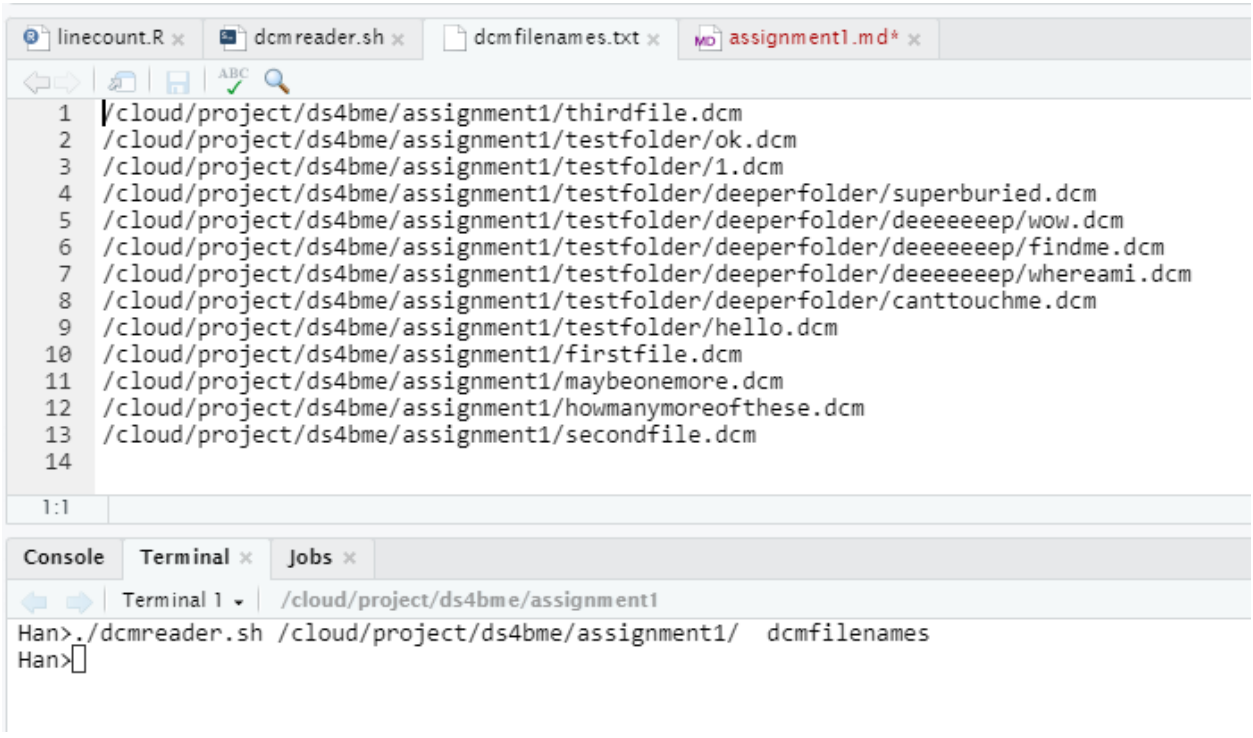

Figure 8: Q7b screenshot of output text file ds4bme.txt after the unix script is run. it contains the path + file name all ending in .dcm as instructed.