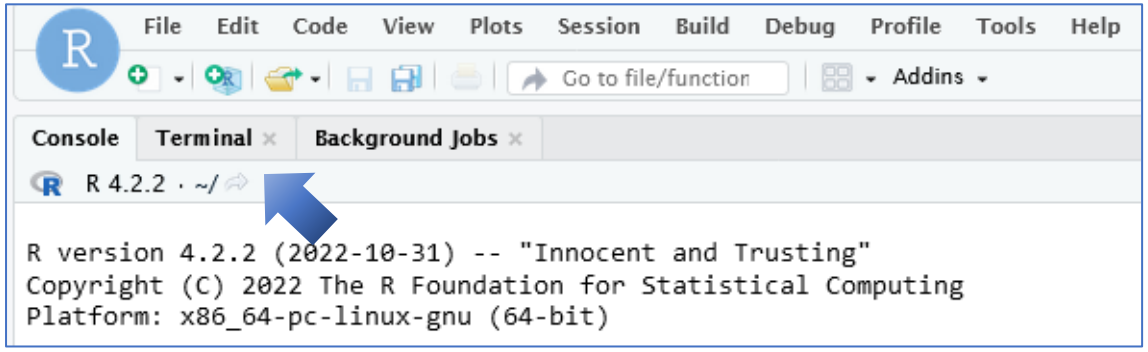
Mendelian randomization: Practical 1

Use your web browser to navigate to: https://workshop.colorado.edu/rstudio/

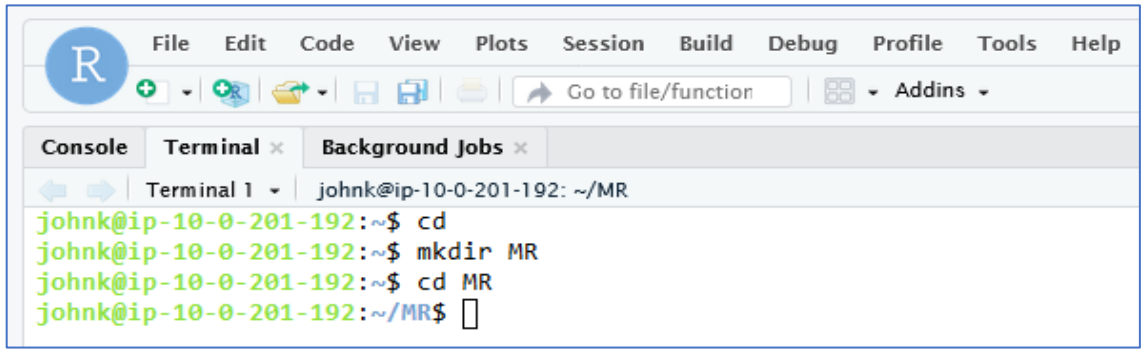
#Login with your username and password

#Click on the “terminal” tab. This will take you to a UNIX like environment where you can copy the files over for this session’s #practical exercise



Now go to your home directory, create a new working directory called “MR”, and move to it

```
cd
mkdir MR
cd MR
```



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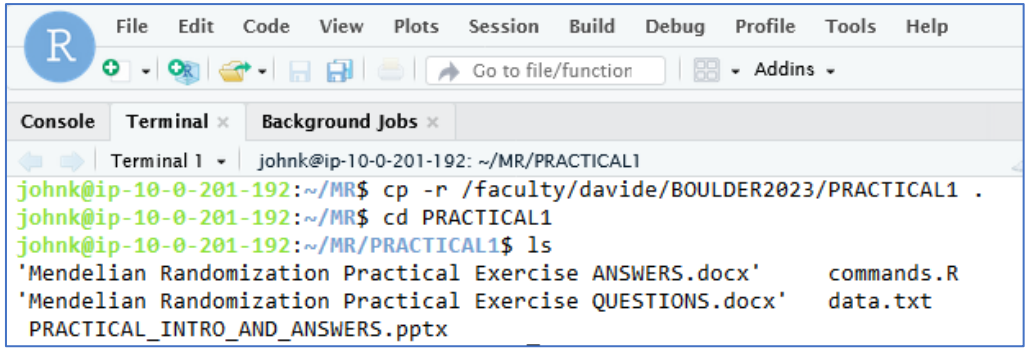
Copy the PRACTICAL1 directory from David Evans' Faculty drive into this directory

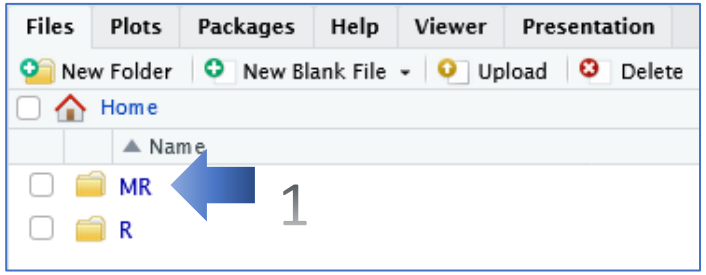
```
cp -r /faculty/davide/BOULDER2023/PRACTICAL1 .
```

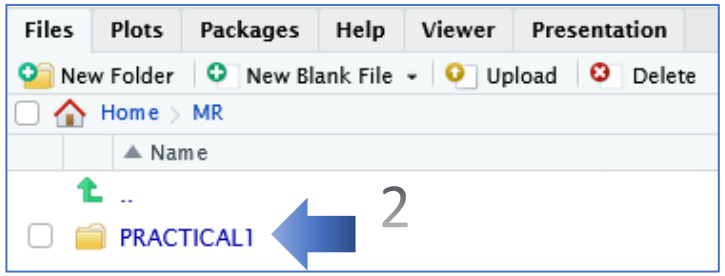
#Move into your newly created PRACTICAL1 directory and print the working directory here

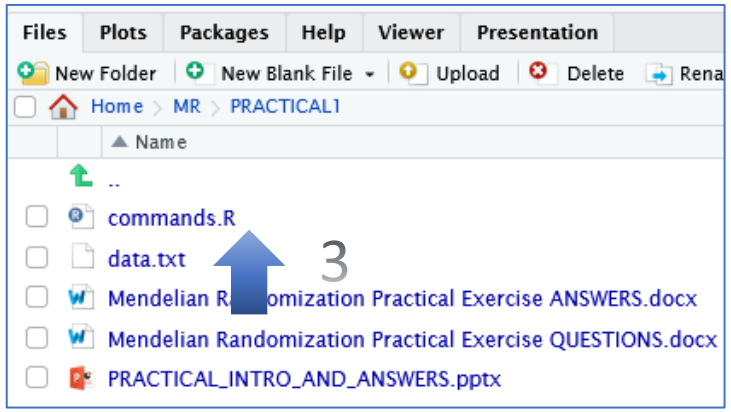
```
cd PRACTICAL1
ls
```



#You should be able to navigate to the PRACTICAL1 directory using the point and click windows style directory in the lower right-hand half of the R studio server (under the files tab). First click Home, then MR and then PRACTICAL1







#Now load the list of commands you will run for the practical.
Click on the "Commands.R" file and the file will load up in the R Console (Top left)

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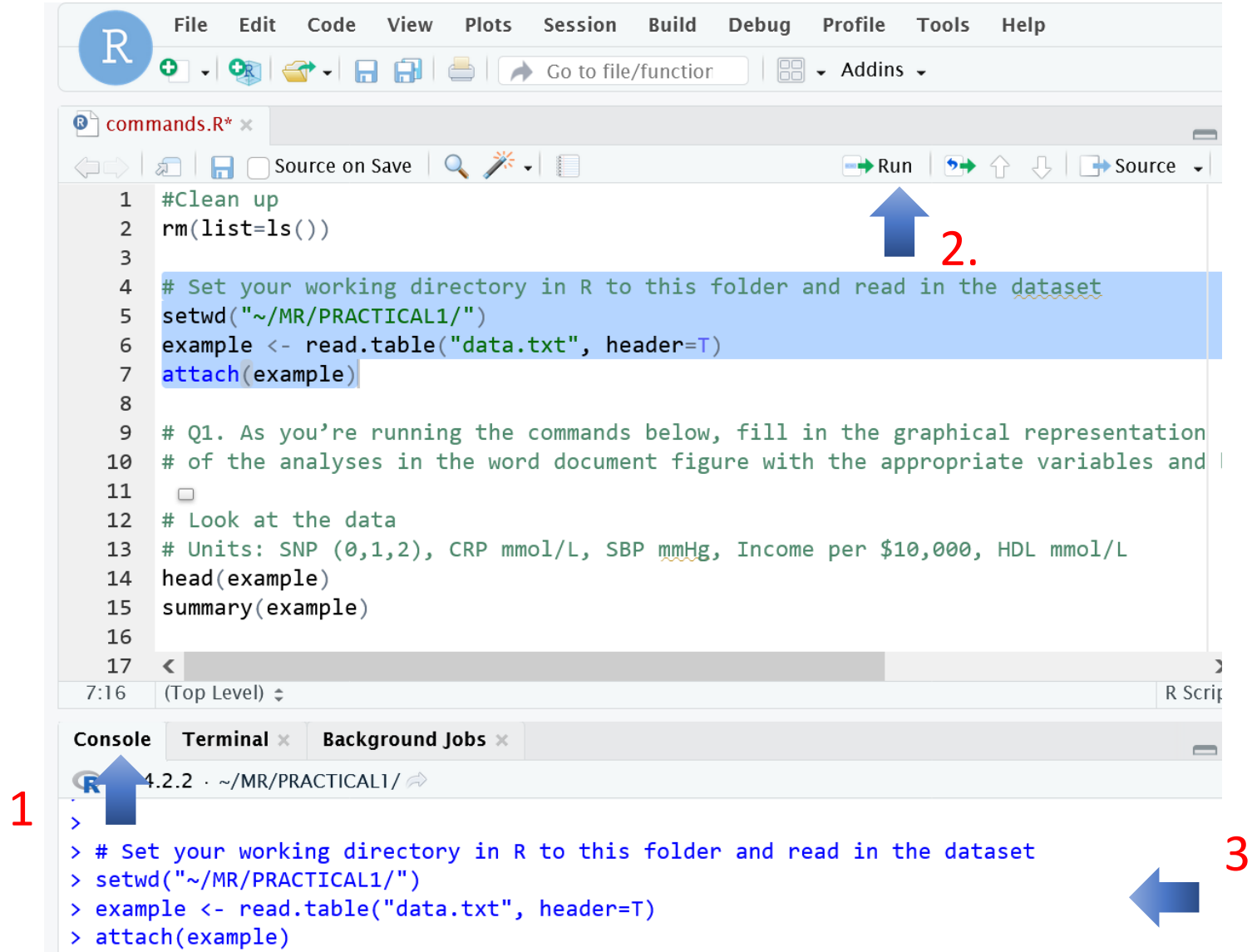
#Change to the "Console" tab which will take you to R.
#Highlight code and Click Run to Clean up, Set your working directory to the PRACTICAL1, and load data



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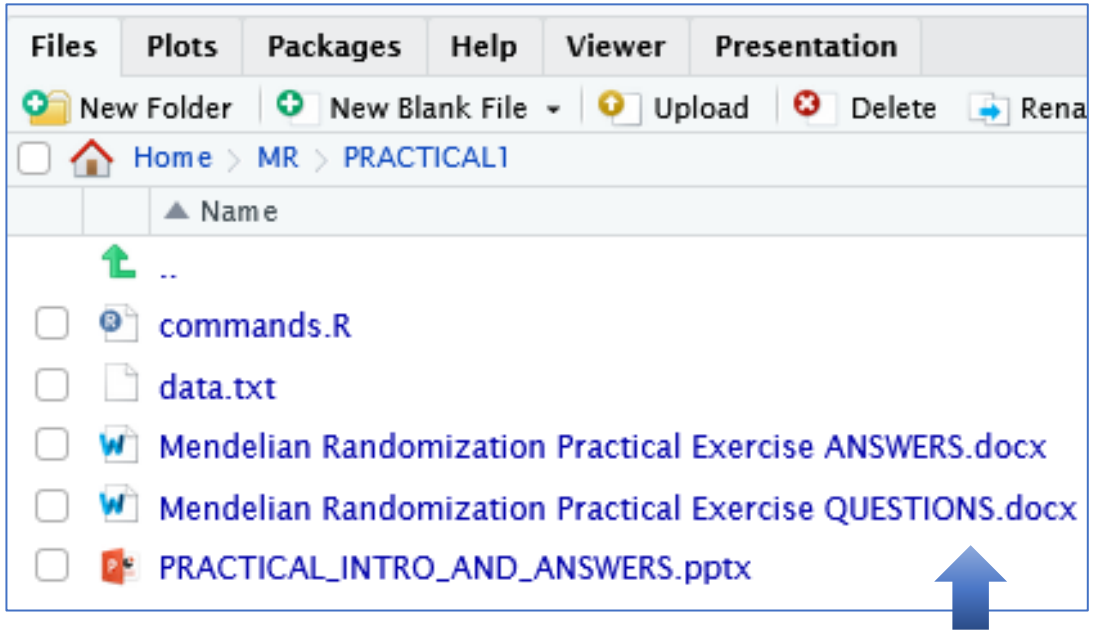
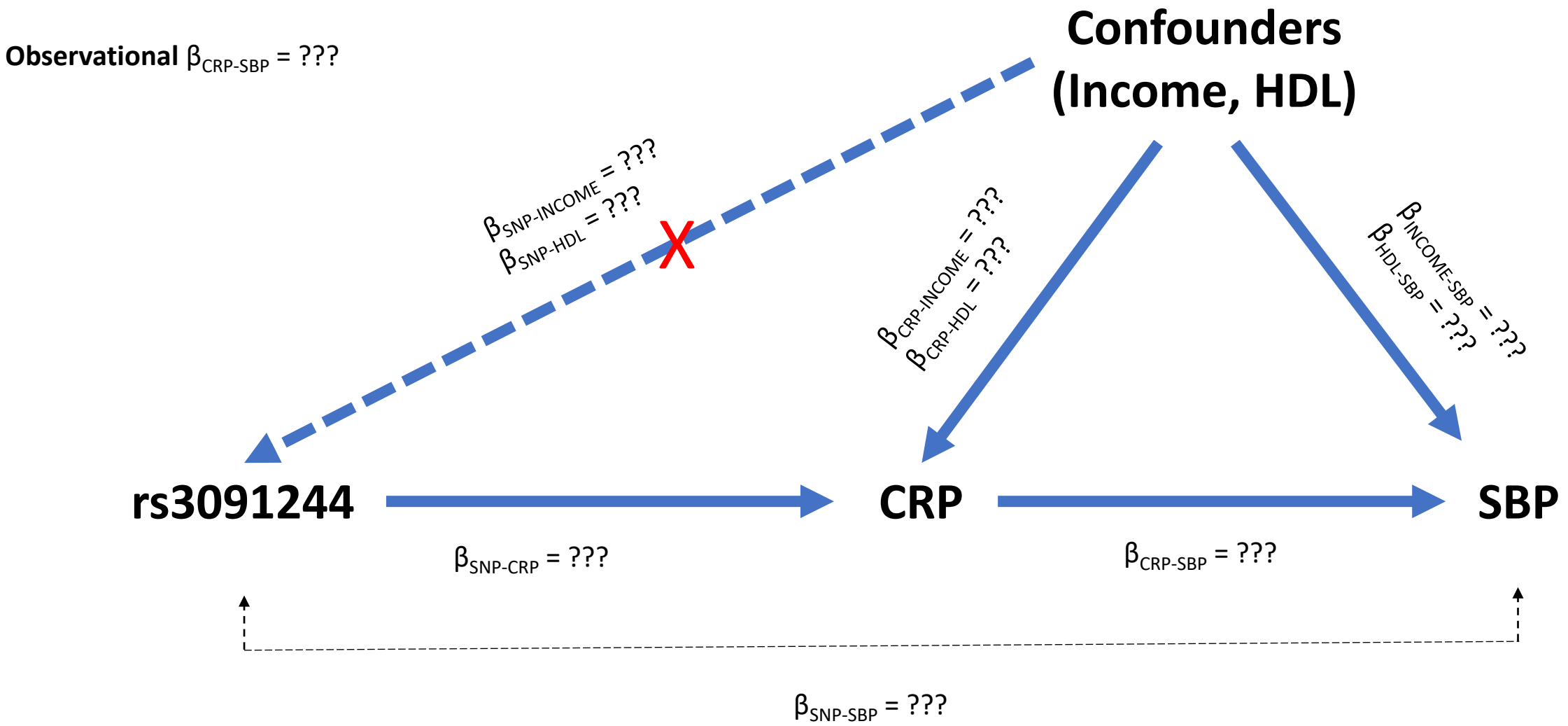
Go to bottom right-hand window, and download “Mendelian_Randomization_Practical_Exercise_QUESTIONS.doc” onto your local pc. Open the file and complete the practical.



#This file also contains R code, but it is recommended to work from the commands.R file that you loaded previously in R studio

Mendelian randomization: Practical 1

Does C-Reactive Protein causally affect Blood Pressure?



Observational $\beta_{CRP\text{-}SBP}$ = 19.1 mmHg/CRP Unit; P < $2x10^{-16}$