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| **CSDE 502 Winter 2020**  **Assignment 9**  **Introduction to Add Health**  **Instructor: Phil Hurvitz**  [**phurvitz@uw.edu**](mailto:phurvitz@uw.edu) | **My Name:**  **My UWNetID:** |

**Due Date: 2020-03-18 17:00**

**Instructions:**

1. Fill out your name and UWNetID at the top of this page.
2. Add your answers to this document.
3. Use the "00Answers" style (

Calibri font

1. ) for your answers so they will be clearly discernible from the questions.
2. When you are completed with your work, create a PDF from the Word document.
3. Name your PDF document with the pattern UWNetID\_HW\_n.pdf where UWNetID is your UWNetID and n is the week number when the assignment was assigned. For example, the first assignment by me would be named *phurvitz\_HW\_1.pdf*. Upload your completed document to Canvas.
4. Upload any specified data or code files to Canvas.

**Explanation:**

This final “assignment” is a catch-all to allow you to turn in any outstanding work, or any answers you wanted to revisit.

Following is a list of the assignments for this course along with the items that were to be submitted via Canvas. Please make sure you have submitted all of the assignments. Send me an email message when you have submitted all of the assignment you want me to review. **For answers that required coding in R, make sure that you turn in R or Rmd files**. **For any files you submit, make sure the file names include the assignment number** so I can identify with which assignment the files are associated. **Please convert any Word documents to PDF before uploading**.

**Grades are due Tuesday March 24, 2020 at 5pm**; in order for me to have sufficient time to review your work, **the due date for outstanding materials is Wednesday, March 18, 2020 5:00 PM**. Everyone who has completed each assignment, that is, made an honest attempt to the best of their ability under agreed assumptions about time constraints, will receive a passing grade.

I am available for consultation about the assignments or other research or training questions; please email me for an appointment.

Assignment 1:

* Questions about Add Health data (PDF from Word document)
* Filling in missing cells in codebook (PDF from Word document)
* R or Rmd: variable renaming and variable labeling

Assignment 2:

* Creating variables, answering questions, filling in tables, printing tables (PDF from Word document)
* R or Rmd file

Assignment 3:

* Loops in Stata: debugging loops, deconstructing loops, creating loops (PDF from Word document)

Assignment 4:

* Another race variable, scoring part b of the Knowledge Quiz (PDF from Word document)
* Stata .do file

Assignment 5:

* Full household roster counts and questions (PDF from Word document)
* R or Rmd file

Assignment 6:

* Questions about lists, optional questions (loops, functions) (PDF from Word document)
* R or Rmd file

Assignment 7:

* Writing functions (PDF from Word document)
* R code (.R file)

Assignment 8:

* Writing functions revisited -- overlaps with Assignment 7 (PDF from Word document)
* -R code (.R file)

Assignment 9:

* Reproducible research exercise using the Human Mortality Database (HMD) and R Markdown:
  + link to GitHub repository (or submitted via Canvas) at least 4 files:
    - R Markdown document (.Rmd)
    - data file(s)
    - knit of R Markdown document to .html document
    - knit of R Markdown document to .pdf document