Directory ... and select he sub folder where you saved the downloaded file(s) and click on OK.

Set the sub folder (where you have saved the files) as the working directory: Click Session -> Set Working Directory -> Choose

• Question 6: Calculate the following using the data frame objects and summary calculations (mean, median, sd, etc.)

Code **▼**

Formatting in R Markdowns

Creates a header (need the space between the # and first character/text)

creates a bullet point (dash followed by a tab)

• CREATE HTML FILE (no chunk needed for this)

• Question 7: Display the summary results for a data frame object

• Question 8: Display the summary results for a data frame object

bolds the text

[1] 3250

Question 1: (Starting with the first chunk) Complete the following basic operations:

```
• Create/load an object called School and assign the value "Loyola" to School.
```

- Create/load an object called Freshman and assign the value 2985 (do not use a comma in 2985) • Create/load an object called Soph and assign the value 3101 (do not use a comma in 3101)
- Create/load an object called Jr and assign the value 2848 (do not use a comma in 2848)
- Create/load an object called Senior and assign the value 3250 (do not use a comma in 3250)

```
School = "Loyola"
Freshman = 2985
Soph = 3101
Jr = 2848
Senior = 3250
```

Question 2: Displaying the values of variable objects (remember, just type the object name and run the chunk) Display the value assigned to the object School

```
    Display the value assigned to the object Freshman

    Display the value assigned to the object Soph

    Display the value assigned to the object Jr
```

Display the value assigned to the object Senior

```
School
## [1] "Loyola"
```

```
Freshman
## [1] 2985
```

```
Soph
## [1] 3101
```

```
Jr
## [1] 2848
Senior
```

```
Question 3: Basic calculations with objects (remember, just use R as
a calculator: + , -, *, /)
```

```
• Display the value of Freshman + Soph + Jr + Senior (use the object names within the math problem, the values will be passed to get the
  result)
• Create/load an object called Enrolled and assign the value of Freshman + Soph + Jr + Senior (use the object names within the math
```

```
problem, the values will be passed to get the result)
```

```
Freshman + Soph + Jr + Senior
## [1] 12184
Enrolled = Freshman + Soph + Jr + Senior
Enrolled
## [1] 12184
```

combine different values into a one-dimensional object) • Note: Vectors are loaded using the c() function. Separate each value with a comma. Remember, do not put quotes "" around numbers. For

Question 4: Create a vector for the following (vectors use c() to

```
any text values, surround each value with quotes. Example: Name = c("Kaitlyn", "Hoffmann")
• Create/load an object called Grades with the values 86, 92, 99
• Create/load an object called Ages with the values 19, 26, 20
• Create/load an object called Class with the values Jr, Sr, Sr
```

```
Grades = c(86,92,99)
Ages = c(19, 26, 20)
Class = c("Jr","Sr","Sr")
#This question had seniors doubled on the pdf. I do not know if this was intentional or not but I have followed the procedur
e as it was listed
```

Question 5: Displaying the values of vector objects Display the values assigned to the object Grades

```
    Display the values assigned to the object Ages

    Display the values assigned to the object Class

Grades
```

```
## [1] 86 92 99
Ages
## [1] 19 26 20
Class
## [1] "Jr" "Sr" "Sr"
```

Question 6: Calculate the following using the vector objects and summary calculations (mean, median, sd, etc.)

ADD THE QUESTIONS BELOW AND A CHUNK FOLLOWING EACH TO THE HW1P2.RMD

Display the average (mean) of Grades – example: mean(Grades) Display the average (mean) of Ages Display the standard deviation (sd) of Grades

```
mean(Grades)
## [1] 92.33333
mean(Ages)
## [1] 21.66667
sd(Grades)
## [1] 6.506407
```

This will import the data in the files to the data frame object student and customer - Note: Save the file student.csv from SAKAI to the working directory folder location you have set - Note: Save the file customer.txt from SAKAI to the working directory folder location you have set; going forward we will always use .csv but this leads as an example of how a .txt file can be used to load data as well - Create/load the data

Question 7: Creating/Loading in data frame objects from data files

"student.csv" using read.csv and call the object Student student = read.csv("student.csv") - Create/load the data "customer.txt" using read.delim and call the object Customer customer = read.delim("customer.txt", header = TRUE) student = read.csv("student.csv") customer = read.delim("customer.txt", header = TRUE)

```
Question 6: Calculate the following using the data frame objects and
summary calculations (mean, median, sd, etc.)
```

```
• Display the average (mean) of the column weight from the object student – example: mean(student$weight)
  • Display the average (mean) of the column height from the object customer
mean(student$weight)
```

```
## [1] 164.66
mean(customer$height)
## [1] 70
Question 7: Display the summary results for a data frame object
```

• Display the summary results for the object student – example: summary(student)

summary(student)

```
weight
                     height
                                                grade
          :110.0
                 Min. :59.00
                              Min. :18.00
                                            Min. : 70.00
    1st Qu.:140.0
                 1st Qu.:65.00
                              1st Qu.:19.00
                                            1st Qu.: 79.00
    Median :160.0
                 Median :68.50
                               Median :19.00
                                            Median : 81.00
    Mean :164.7
                       :68.08
                               Mean :19.28
                                            Mean : 82.00
                 Mean
    3rd Qu.:179.8
                 3rd Qu.:70.75
                               3rd Qu.:20.00
                                            3rd Qu.: 85.75
                      :78.00
    Max. :270.0
                 Max.
                              Max. :20.00
                                            Max. :100.00
      class
   Length:50
    Class :character
    Mode :character
Question 8: Display the summary results for a data frame object
```

```
• Display the summary results for the object customer
```

```
summary(customer)
                         height
       name
                                        age
                                                     state
   Length:7
                     Min. :64.0
                                   Min. :26.00
                                                  Length:7
                     1st Qu.:69.0
                                  1st Qu.:34.00
   Class :character
                                                  Class :character
                     Median :71.0
                                   Median :40.00
    Mode :character
                                                  Mode :character
                     Mean :70.0
                                   Mean :41.43
                                   3rd Qu.:46.00
                     3rd Qu.:71.5
                     Max. :74.0
                                   Max. :64.00
```

CREATE HTML FILE (no chunk needed for this) • Create an html file that will contain:

Click the arrow next to Knit and choose HTML

 All the code • Executed outputs and answers to the follow-up questions, if there is any.

• This process will save the Rmd file and create the html file on your working directory.