Workflow-practice.R

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# ---  
# title: "Workflow-practice"  
# author: "yuko"  
# date: "2024-10-18"  
# output:  
# html\_document:  
# keep\_md: true  
# ---  
  
#```{r, eval = TRUE}  
## insert actual code here  
data1 = c(2, 5, 3, 6, 8, 12, 9, 25, 8, 10, 16)  
mean(data1)

## [1] 9.454545

sd(data1)

## [1] 6.51711

sum(data1)

## [1] 104

#```  
  
  
## R Markdown  
  
#This is an R Markdown practice document. R Markdown is a simple formatting syntax for authoring HTML, PDF, and MS Word documents. For more details on using R Markdown see <http://rmarkdown.rstudio.com>.   
  
### Text formatting  
# Document can be formatted by syntax for header\  
# - # Header 1 (main title)\  
# - ## Header 2 (section)\  
# - ### Header 3 (subsection)\  
#   
# Text can be emphasized by using italic, bold, strikethrough, or subscript:\  
# - \*italic\* or \_italic\_\  
# - \*\*bold\*\* or \_\_bold\_\_\  
# - ~~ strikethrough~~\  
# - text^superscript^\  
# - text~subscript~\  
  
# Breaks in R Markdown include\  
# - Line break—to start a new line. Implemented by ending the previous line with a backslash\  
# - Paragraph break—to start a new paragraph. Implemented by ending the previous paragraph with two spaces.\  
# - Slide break—to start a new slide in the slide-based output formats (presentations) or a new section in all the other formats. Implemented by inserting a horizontal rule (\*\*\*) into the document.\  
# - Page break—to start a new page, in those output formats where it's applicable, e.g., in Microsoft Word. Implemented by inserting the command newpage into the document.\  
#   
# When you click the \*\*Knit\*\* button a document will be generated that includes both content as well as the output of any embedded R code chunks within the document. You can embed an R code chunk like this:  
#   
# ```{r}  
# print("Practicing code chunk")  
# ```  
#   
# ```{r cars}  
# summary(cars)  
# ```  
#   
# Rmarkdown is not limited to using only R, but also supports other programming language (see the code chunk drop down) also name each code chunks NOTE: need to install python  
# ```{r hello\_world}  
# print("Hello, World!")  
# ```  
#   
# ## Code Chunk options  
# ### this information comes from R Markdown Tutorial for beginners in Data Camp  
# echo=FALSE: the code itself will not be shown in the final document, only its outputs.\  
# eval=FALSE: the code in the code chunk will not be run.\  
# include=FALSE: the code chunk will be run but not included in the final document.\  
# results: the default value is "markup"; other values are:\  
# "hide": the code output will be hidden in the final document\  
# "hold": the code output will be shown with a delay, only after the whole code chunk is executed\  
# "asis": the code output will be passed through without reformatting.\  
# message=FALSE: the messages produced by the code will not be shown.\  
# error=FALSE: the errors produced by the code will not be shown.\  
# warning=FALSE: the warnings produced by the code will not be shown.\  
# highlight=FALSE: the code will not be highlighted in the final document.\  
# prompt=TRUE: the > symbol will be added at the beginning of each code line shown in the final document.\  
#   
# ```{r echo=FALSE}  
# print("Practicing code chunk")  
# ```  
#   
# ## Including Plots  
# ### Customize plots in R Marcdown using chunk options  
# fig.show: the default value is "asis"; other values are:\  
# "hide": the plots will be generated but not included in the final document\  
# "hold": the plots will be shown with a delay, only after the whole code chunk is executed\  
# "animate"—all the plots of the code chunk will be combined into an animation.\  
# fig.width: the plot width in inches, 7 by default.\  
# fig.height: the plot height in inches, 7 by default.\  
# fig.align: the way of aligning plots in the final document, can be "left", "center", or "right".\  
# fig.cap: a figure caption represented by a character string.\  
# fig.path: a path to the directory where the plot files created by the code chunk should be stored.\  
# fig.ext: the extension of the plot files created by the code chunk.\  
#   
# ```{r pressure, fig.width=10, fig.hight=4, fig.cap="Fig.1. Vapor Pressure of Mercury as a Function of Temperature"}  
# plot(pressure)  
# ```  
#   
# Note that the `echo = FALSE` parameter was added to the code chunk to prevent printing of the R code that generated the plot.