R Markdown Instructions

IE 490 - Data Mining

Read carefully.

February 21, 2017

Step 1 - Install R

https://cloud.r-project.org/

Install R

(a https://cloud.r-project.org	C Q Search 🗘 🖨 🕈 🛡 💁 Z 🗋 - *				
R	The Comprehensive R Archive Network				
	Download and Install R				
	Precompiled binary distributions of the base ystem and contributed packages, Windows and Mac users most likely want one of these versions of R:				
CRAN Mirrors	Download R for Linux Download R for (Mac) OS X				
What's new? Task Views	Download R for Windows				
Search	R is part of many Linux distributions, you should check with your Linux package management system in addition to the link above.				
About R	Source Code for all Platforms				
<u>R Homepage</u> The R Journal	Windows and Mac users most likely want to download the precompiled binaries listed in the upper box, not the source code. The sources have to be compiled before you can use them. If you do not know what this means, you probably do not want to do it!				
Software	The latest release (Monday 2016-10-31, Sincere Pumpkin Patch) R-3.3.2.tar.gz, read what's new in the latest version.				
R Sources R Binaries Packages	Sources of <u>R alpha and beta releases</u> (daily snapshots, created only in time periods before a planned release).				

Step 2 - Install pandoc

http://pandoc.org/installing.html

Install pandoc

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Pandoc a universa	I document converter				
About	Installing pandoc				
Installing	Windows There is a package installer at pandoc's download page.				
Getting started	 For PDF output, you'll also need to install LaTeX. We recommend MiKTeX. 				
Demos 👻	 If you'd prefer, you can extract the pandoc and pandoc-citeproc executables from the MSI and copy 				
Documentation -	them directly to any directory, without running the installer. Here is an example showing how to extract the executables from the pandoc-1.19.1 installer and copy them to C:\Utils\Console\:				
Help	<pre>mkdir "%TEMP%\pandoc\" start /wait msixxec.exe /a pandoc-1.19.1-windows.msi /qn targetdir="%TEMP%\pandoc\"</pre>				
Extras	<pre>copy /y "%TEMP%\pandoc\pandoc.exe" C:\Utils\Console\ copy /y "%TEMP%\pandoc\pandoc.exe" C:\Utils\Console\</pre>				
Releases	rmdir /s /q "%TEMP%\pandoc\"				
Windows Mac OS X Linux	Mac OS X There is a package installer at pandoc's download page. If you later want to uninstall the package, you can do so by downloading this script and running it with pert uninstall-pandoc.pl.				

Step 3 - Install R Studio

https://www.rstudio.com/products/rstudio/

Install R Studio

https://www.rstudio.com/products/rstudio/#Desktop		🖾 🤄 🔍 Search 🟠 💼	t c	
RStudio	rstudio::conf Produ	cts Resources Pricing About Us Blog	5	
Overview	Access RStudio locally Syntax highlighting, code completion, and smart indentation Execute R code directly from the source editor Quickly Jump to function definitions Easily manage multiple working directories using projects Integrated R help and documentation Integrated R help and documentation Interactive debugger to diagnose and fix errors quickly Extensive package development tools	 All of the features of open source; plus: A commercial license for organizations not able to use AGPL software Access to priority support 		
Support	Community forums only	Priority Email Support 8 hour response during business hours (ET)		
License	AGPL v3	RStudio License Agreement		
Pricing	Free	\$995/year		
	DOWNLOAD RSTUDIO DESKTOP	BUY NOW		

Remember. You need to install them after downloading.

Remember. You need to install all programs after downloading them. If ok, proceed to next steps.

Step 4 - Open R Studio and open an R Markdown document.

Note: If prompted, install the required packages. Change the title and author accordingly. Select Word format. Save your R Markdown file (.Rmd) with a proper name.

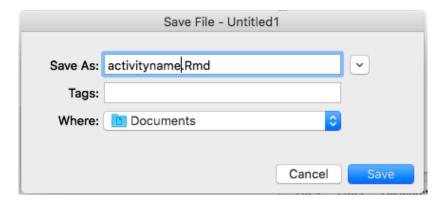
R Markdown Document

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R Notebook	
🕙 R Markdown	he R Foundation for Statistical Computing
😟 Shiny Web App	le-darwin13.4.0 (64-bit)
Text File	nd comes with ABSOLUTELY NO WARRANTY.
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R Sweave	
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😨 R Presentation	project with many contributors.
R Documentation	' for more information and
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Type 'demo()' for s	some demos, 'help()' for on-line help, or
	an HTML browser interface to help.
Type 'q()' to quit	R.
>	

R Markdown Document

New R Markdown				
Document	Title: Name of the Activity			
🛱 Presentation	Author:	Group X - Namel Surnamel - Name2 Surname2		
Shiny	Default O	utput Format:		
🖹 From Template	 HTML Recommended format for authoring (you can switch to PDF or Word output anytime). PDF PDF PDF output requires TeX (MiKTeX on Windows, MacTeX 2013+ on OS X, TeX Live 2013+ on Linux). 			
	 Word Previewing Word documents requires an installation of MS Word (or Libre/Open Office on Linux). 			
		OK Cancel		

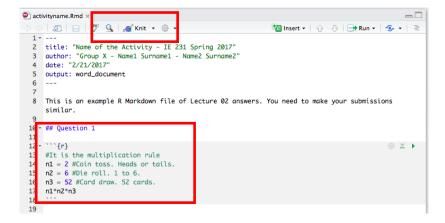
R Markdown Document



Step 5 - Change the content to answer the questions and Knit.

Note: R code inside the chunks (areas denoted by special backticks). Hash symbol # means commenting in R. After you click Knit, it will compile below. You will have a word document.

Knitting



Knitting

Console	R Markdown ×			
🐑 ~/Do	cuments/activityn	ame.Rmd		
ording	ary text withou	it R code		
	unnamed-chunk-		 	I 80%
	ary text withou	it R code	 	90%
	unnamed-chunk-	5	 	100%
ascii_ia		math_single_back		xfrom markdown+autolink_bare. cxhighlight-style tango
Output d	created: activ	.tyname.docx		

Knitting



Name of the Activity - IE 231 Spring 2017

Group X - Name1 Surname1 - Name2 Surname2

2/21/2017

This is an example R Markdown file of Lecture 02 answers. You need to make your submissions similar.

Question 1

#It is the multiplication rule n1 = 2 #Coin toss. Heads or tails. n2 = 6 #Die roll. 1 to 6. n3 = 52 #Card draw. 52 cards. n1*n2*n3 HF [1] 624

Ouestion 2

#Permutation rule factorial(4) ## [1] 24

Question 3

etwo Os, two Ds and two Gs factorial(10)/(factorial(2)*factorial(2)*factorial(2))

[1] 453600

Question 4

Permutation of n to r items. factorial(6)/factorial(6-2)

[1] 30

Final Step - Submit your work on Moodle.