R Notebook

Code ▾

This is an R Markdown (http://rmarkdown.rstudio.com) Notebook. When you execute code within the notebook, the results appear beneath the code.

Try executing this chunk by clicking the *Run* button within the chunk or by placing your cursor inside it and pressing *Ctrl+Shift+Enter*.

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```
install.packages("openxlsx")
```

```
WARNING: Rtools is required to build R packages but is not currently installed. Please download
and install the appropriate version of Rtools before proceeding:

https://cran.rstudio.com/bin/windows/Rtools/
Installing package into 'C:/Users/jrand/Documents/R/win-library/4.1'
(as 'lib' is unspecified)
trying URL 'https://cran.rstudio.com/bin/windows/contrib/4.1/openxlsx_4.2.5.zip'
Content type 'application/zip' length 2848536 bytes (2.7 MB)
downloaded 2.7 MB
```

```
package 'openxlsx' successfully unpacked and MD5 sums checked

The downloaded binary packages are in
    C:\Users\jrand\AppData\Local\Temp\RtmpSkJM5u\downloaded_packages
```

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```
library(openxlsx)
xlsxFile <- system.file("extdata","Test1_Appl_Reg_v5_Data.xlsx", package = "openxlsx")
df1 <- read.xlsx(xlsxFile = "Test1_Appl_Reg_v5_Data.xlsx", sheet = 1, skipEmptyRows = FALSE)
df1$Crime
```

```
 [1]  8487  8179  8362  8220  6246  9100  6561  5873  7993  7932  6491  6816  9639  4595  5037
4427  6226 10768  8335 12311 10104 10503  7562  8593  7133
[26] 10205 14016  5959  3764  4297  7562  4844  5777  3599  3219 11187  2105  6650 11371  4517
7348  5696  4995  9248  6860  9776  4280 11154  3442  9674
[51]  7309  4530  4017  7122  5689  6109  3343  5029  4330  5425  8769  6880  6538  6521  9423
9697  3805  3134  3433  2979  6836  5804  7986 10994 11322
[76]  8937  8807 11087 10355  7858  3632  8040  6981  7582
```

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```
df1$Education
```

```
 [1] 74 82 81 81 87 66 68 81 74 82 75 82 78 84 82 79 78 73 77 65 77 76 79 79 78 84 78 81 89 85 7
7 74 80 84 88 75 77 78 61 91 83 77 85 70 88 80 82 82 82 70 64
[52] 79 83 77 76 80 84 82 81 74 81 76 78 78 79 83 79 83 81 84 64 67 75 73 77 64 75 80 83 85 91 8
8 83 76
```

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```
linmod <- lm(Crime~Education, data=df1)

linmod
```

```
Call:
lm(formula = Crime ~ Education, data = df1)

Coefficients:
(Intercept)     Education
    20517.6        -170.6
```

```

Add a new chunk by clicking the *Insert Chunk* button on the toolbar or by pressing *Ctrl+Alt+I*.

When you save the notebook, an HTML file containing the code and output will be saved alongside it (click the *Preview* button or press *Ctrl+Shift+K* to preview the HTML file).

The preview shows you a rendered HTML copy of the contents of the editor. Consequently, unlike *Knit*, *Preview* does not run any R code chunks. Instead, the output of the chunk when it was last run in the editor is displayed.