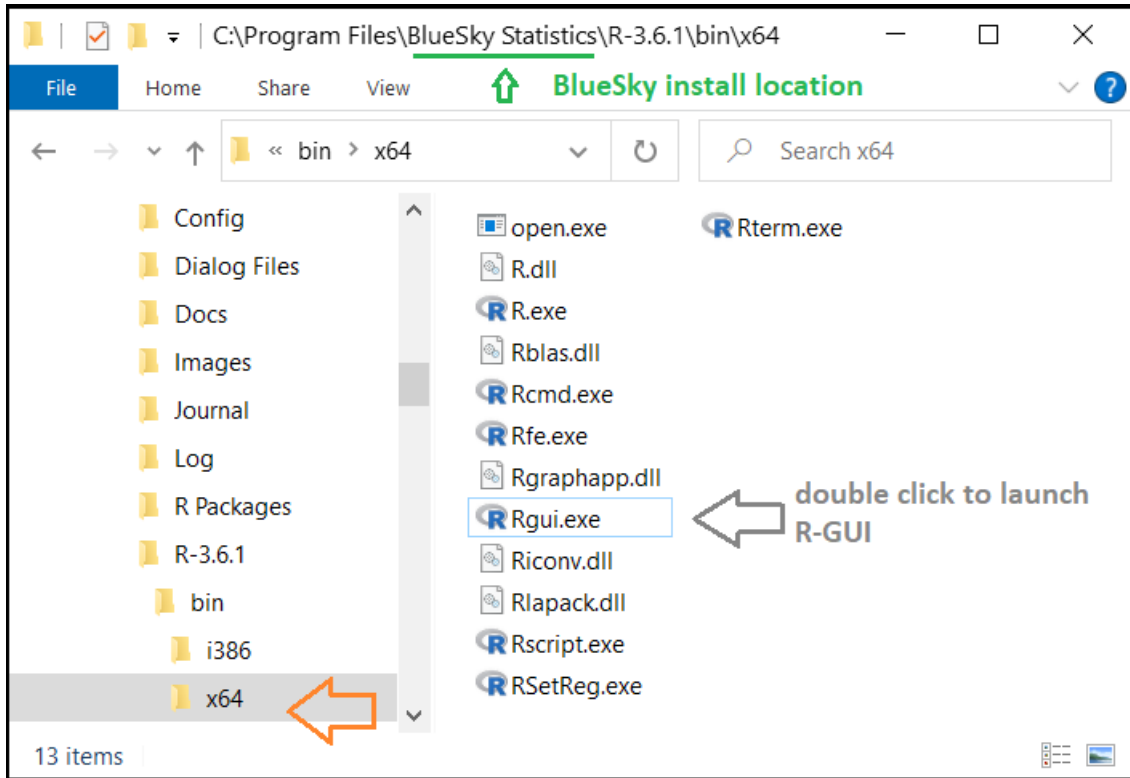


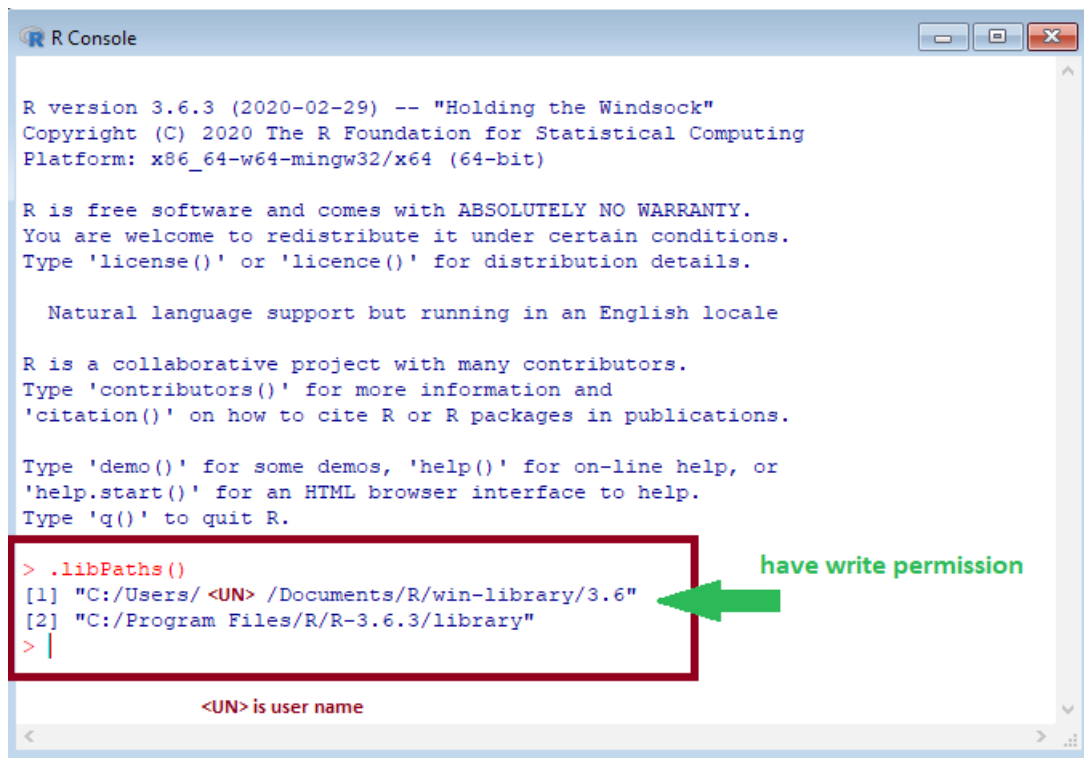
## Installing/Updating R package(s) in BlueSky Statistics

- 1) Close/exit BlueSky Statistics application.
- 2) Launch R-GUI. You can launch it from BlueSky Statistics install location. See below:



...continued

3) Execute command: `.libPaths()`



```
R Console

R version 3.6.3 (2020-02-29) -- "Holding the Windsock"
Copyright (C) 2020 The R Foundation for Statistical Computing
Platform: x86_64-w64-mingw32/x64 (64-bit)

R is free software and comes with ABSOLUTELY NO WARRANTY.
You are welcome to redistribute it under certain conditions.
Type 'license()' or 'licence()' for distribution details.

Natural language support but running in an English locale

R is a collaborative project with many contributors.
Type 'contributors()' for more information and
'citation()' on how to cite R or R packages in publications.

Type 'demo()' for some demos, 'help()' for on-line help, or
'help.start()' for an HTML browser interface to help.
Type 'q()' to quit R.

> .libPaths()
[1] "C:/Users/<UN> /Documents/R/win-library/3.6"
[2] "C:/Program Files/R/R-3.6.3/library"
> |
```

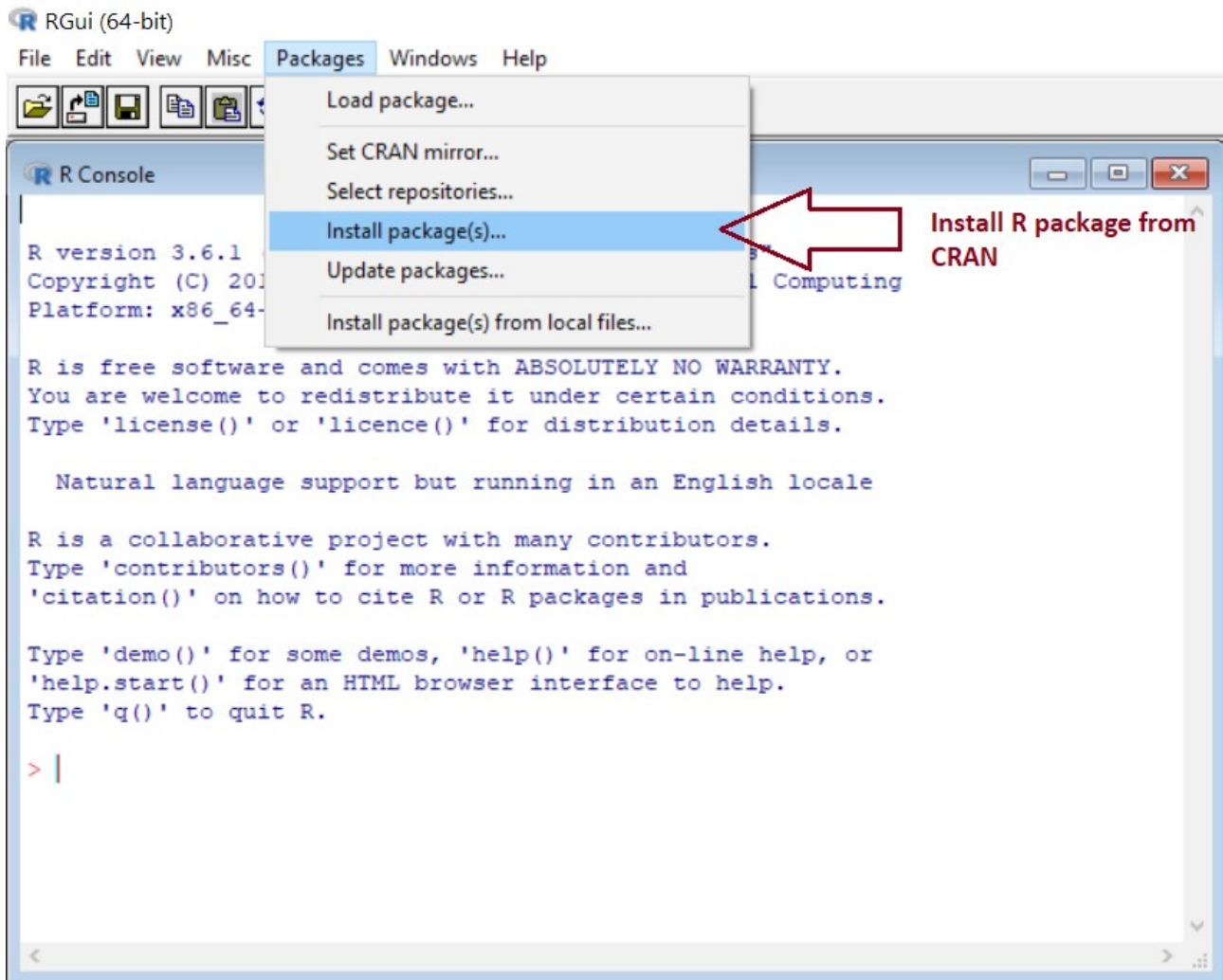
have write permission

<UN> is user name

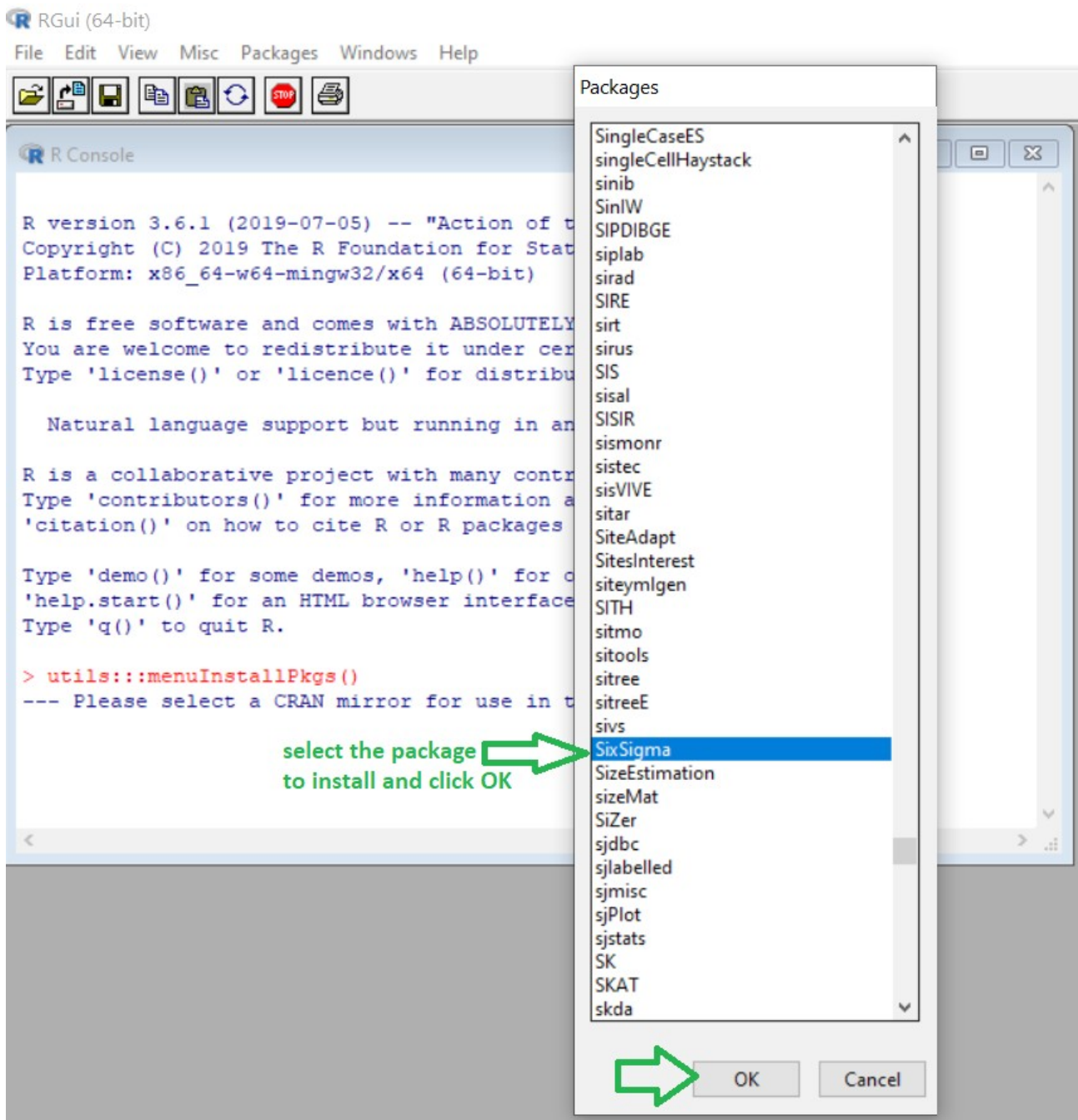
4) Above command will show all the library locations for the current R session. Some of these locations may have write-permissions some may not. When we install any R package, R will use the first location (scanning the libPaths list from top to bottom) with write permission for installing the R package.

...continued

5) From R-GUI, install the desired R package. See 2 screenshots below:

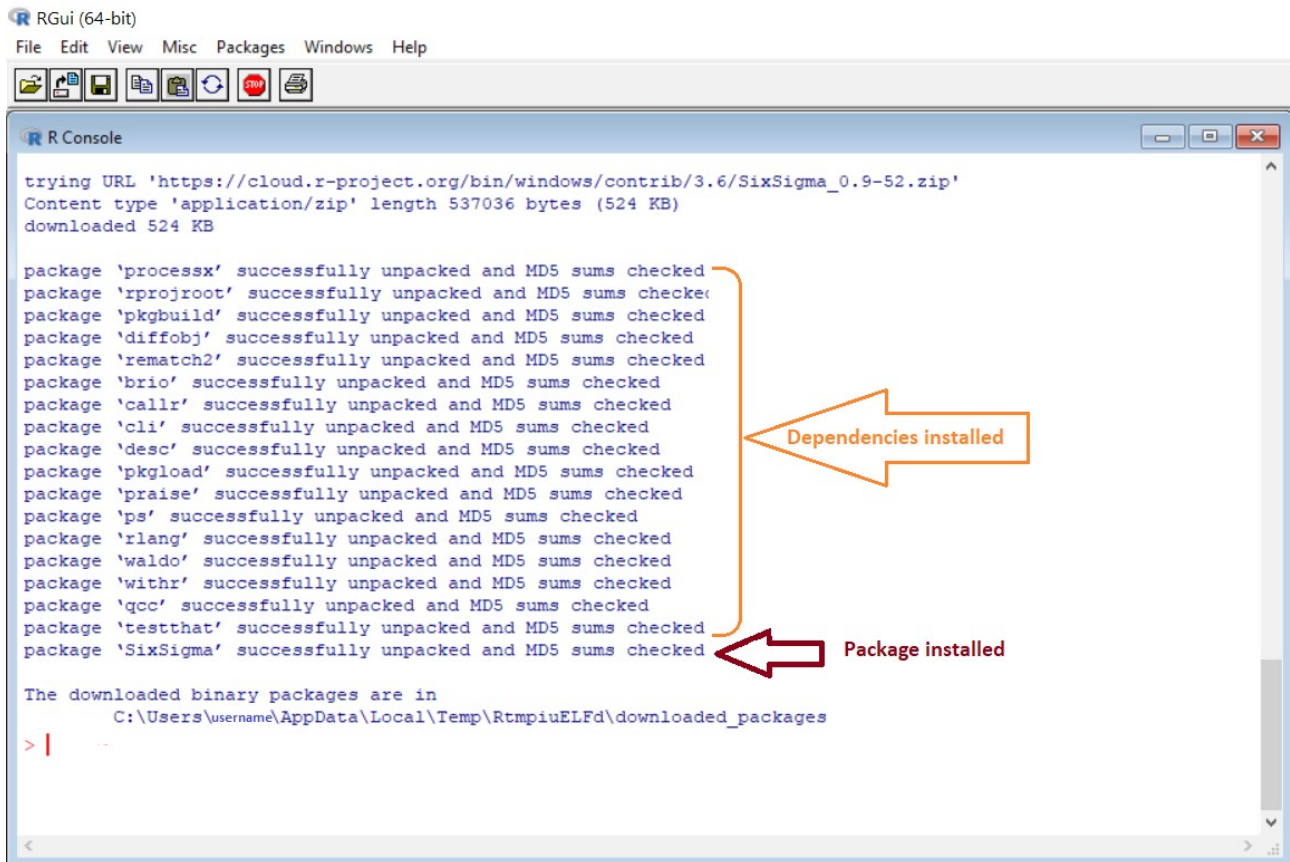


...continued



...continued

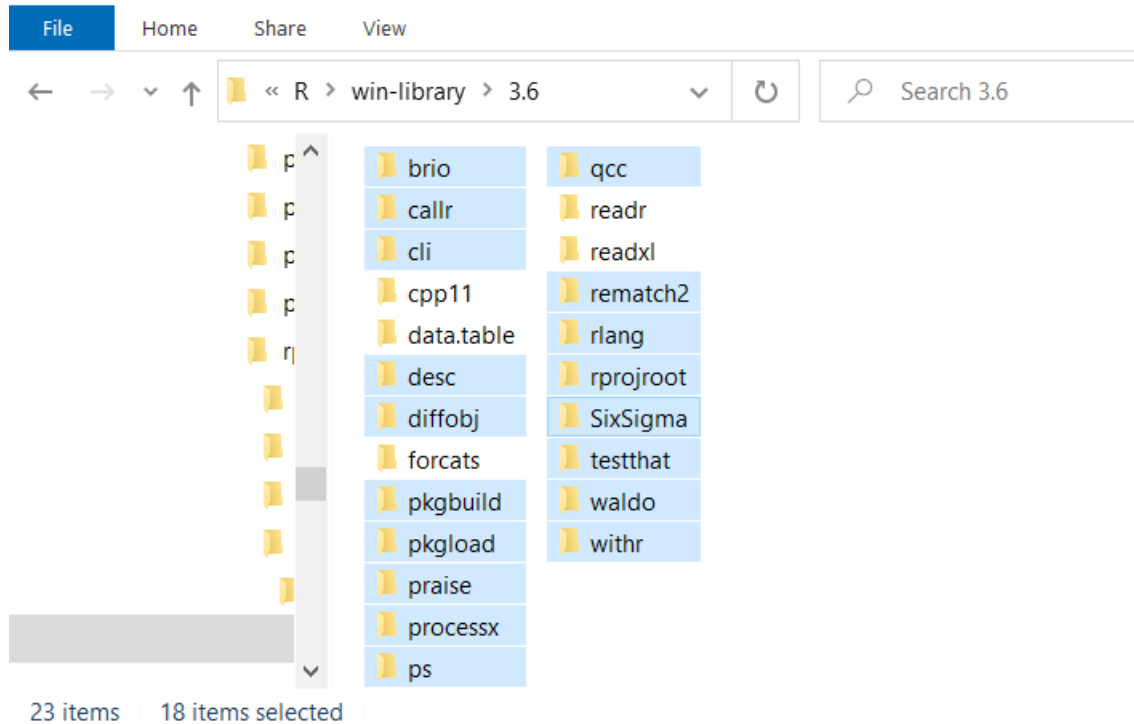
6) While installing the needed R package some other dependencies ( R packages) will also install. Keep track of those too.



7) By default R-GUI installs in the "Documents/R/win-library/<<R-version>>" but you must check the .libPaths entries (step 3 above) to make sure where did the package install.

...continued

8) Using Windows "File Explorer" go to your R library location where desired R package and its dependencies got installed. Using "**Ctrl + left mouse click**" select all the folders having the same name as the desired package name and the name of the dependencies (step 6 shows the list).



9) Copy all these folders and paste them in the following location:

<<**BlueSky Statistics Install Location**>>\R-3.6.1\library

e.g.

C:\Program Files\BlueSky Statistics\R-3.6.1\library

If you get an overwrite prompt, overwrite files/folders in the above location with the new ones.

10) To verify the package version, that you just installed, launch BlueSky Statistics go to "Tools > Package > R Package Details", enter the package name (case sensitive), without quotes and click OK. Package version and other details will be shown in the BlueSky Statistics output window.

...continued

11) Load this installed R package using BlueSky R command editor.

The screenshot displays the BlueSky R command editor interface. The main window is titled "Output and Syntax window-1 (Active)". The top menu bar includes "File", "Edit", "Layout", "Analysis", "Data", "Distribution", "Graphics", "Model Fitting", and "Model Tuning". Below the menu is a toolbar with icons for "K Means", "Cross Tab", "Summarize", "Time Series", "Binning", "Compute", "Standardize", "Aggregate", "Sort", and "Box Plot".

The main content area shows the command `BSkyOpenNewDataset ( datasetName='Dataset1' )` and the output of the `library(SixSigma)` command. The output includes a warning: "Warning: package 'SixSigma' was built under R version 3.6.3" and a list of installed packages:

```
library(SixSigma)
Warning: package 'SixSigma' was built under R version 3.6.3
[1] "SixSigma" "gdata" "stringr" "openxlsx" "haven"
[6] "readr" "readxl" "data.table" "foreign" "BlueSky"
[11] "tools" "stats" "graphics" "grDevices" "utils"
[16] "datasets" "methods" "base"
```

The right-hand pane is titled "R Syntax Editor - ./Sample R Scripts/sample.R <unsaved script >". It contains the following code:

```
1 ## You can open a sample script
2 ## from the following location.
3 ## Go to
4 ## <BlueSky Statistics Install Folder>
5 ## Locate
6 ## Sample R Scripts\getting started.R
7 library(SixSigma)
```

An orange arrow points to the `library(SixSigma)` line in the R Syntax Editor.