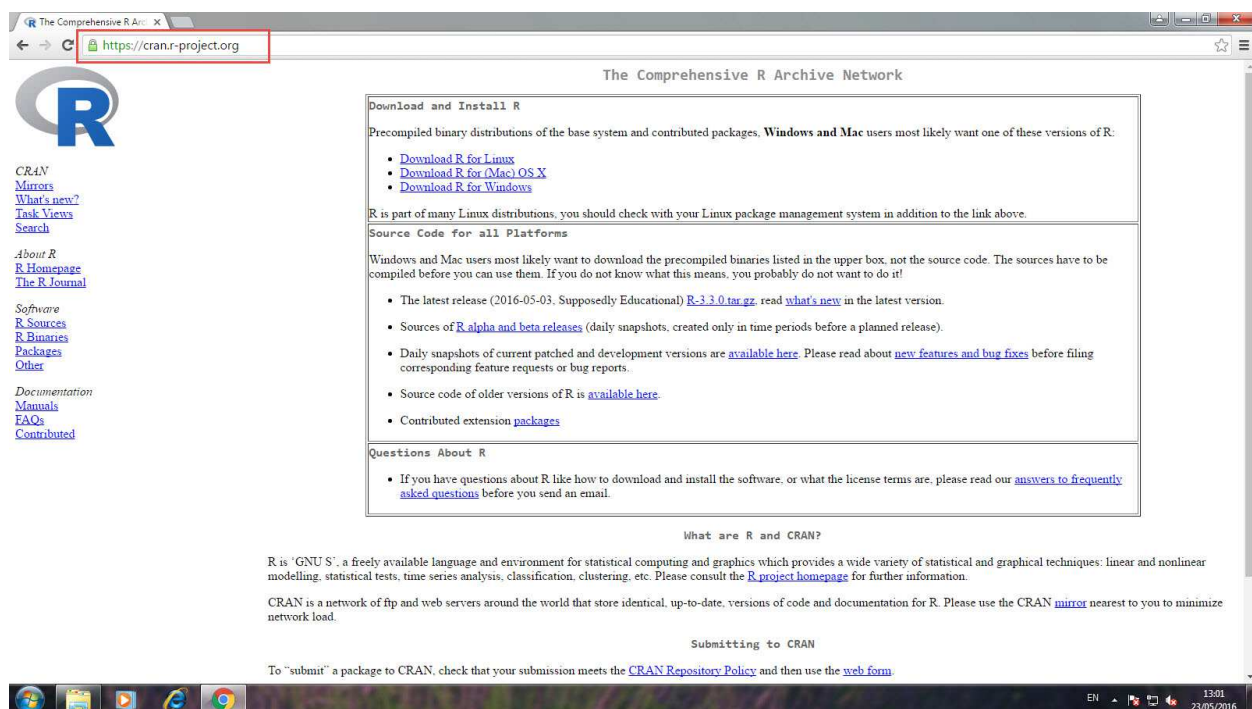


1. Install R-Gui on Windows

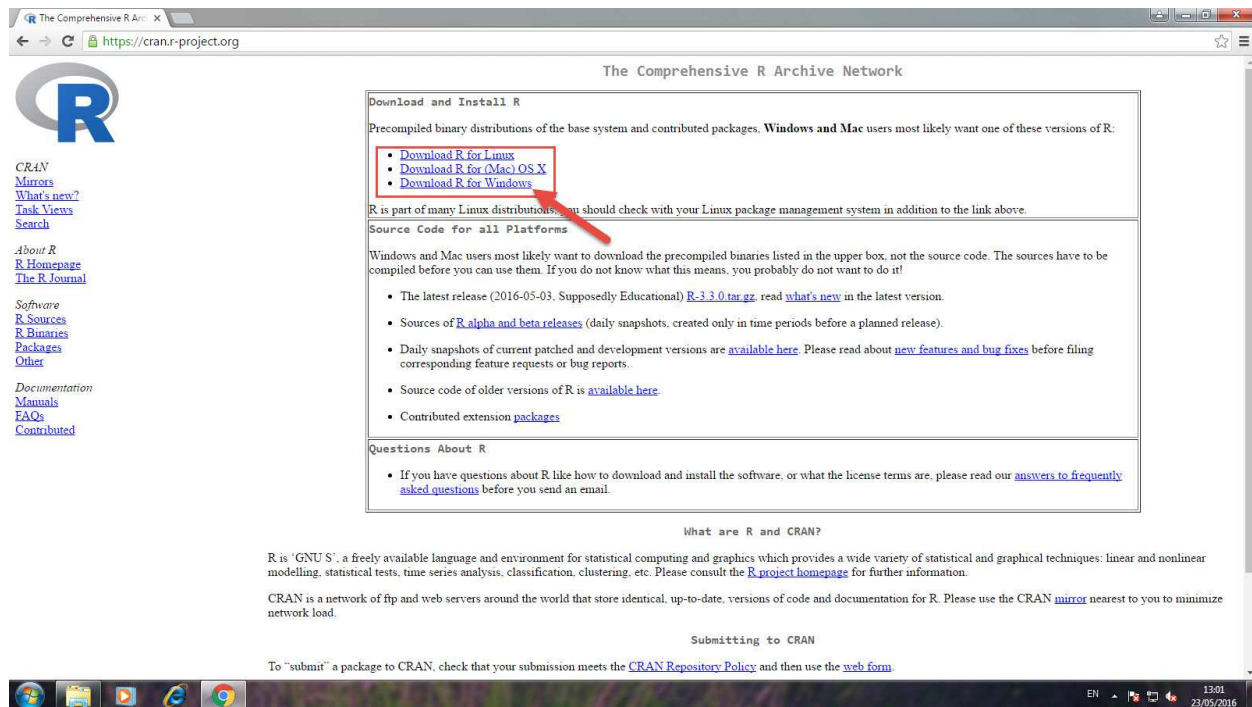
2. Install R-Studio IDE on Windows

Install R-Gui on Windows

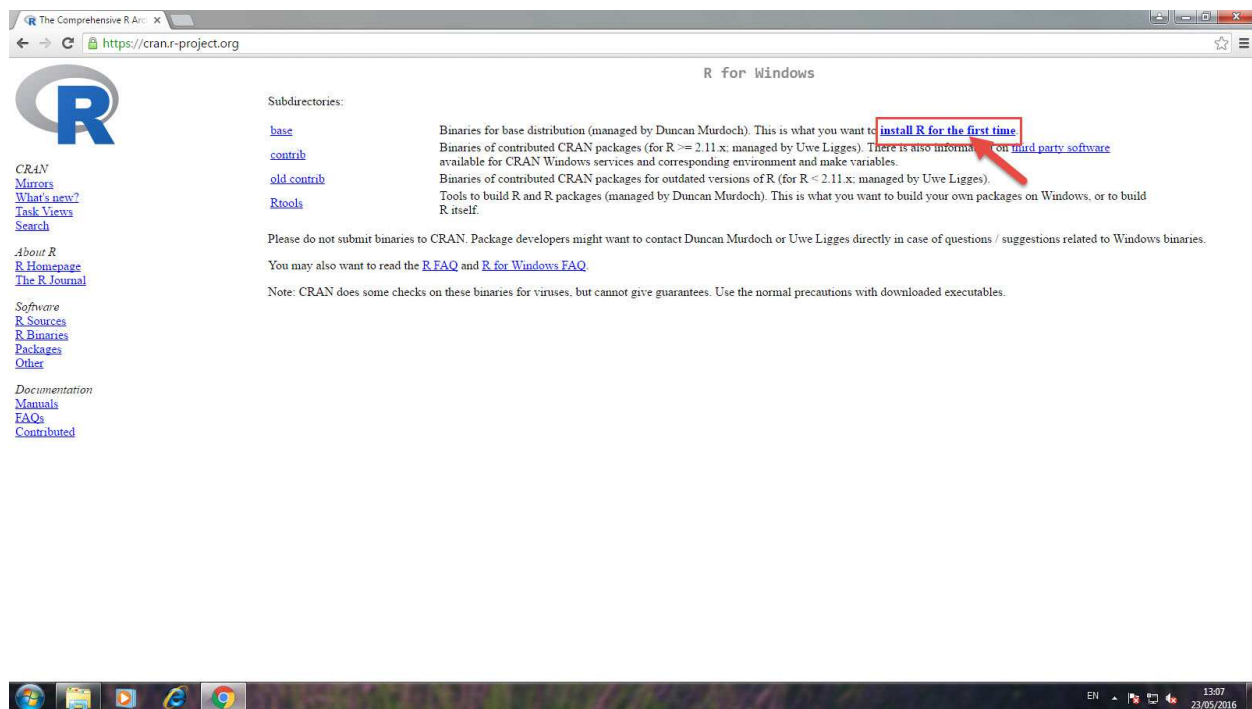
Go to Comprehensive R Archive Network (CRAN) website <https://cran.r-project.org/>



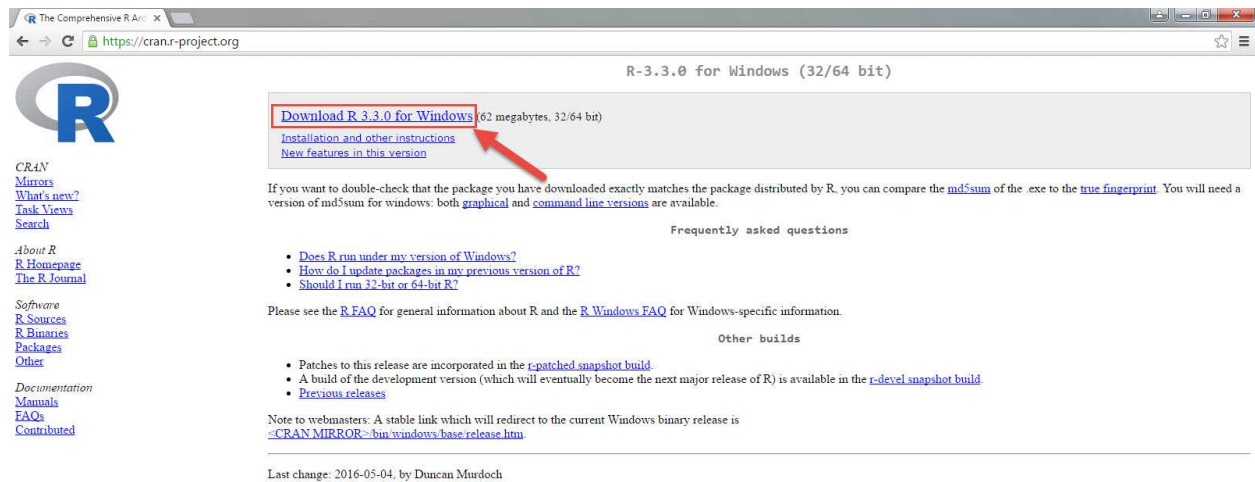
Select the link based on your operating system



Click on the link install R for the first time



Click on the link Download R for Windows (Here the version is R 3.3.0, it may be latest version while installing)



After installation completed click on Run Button



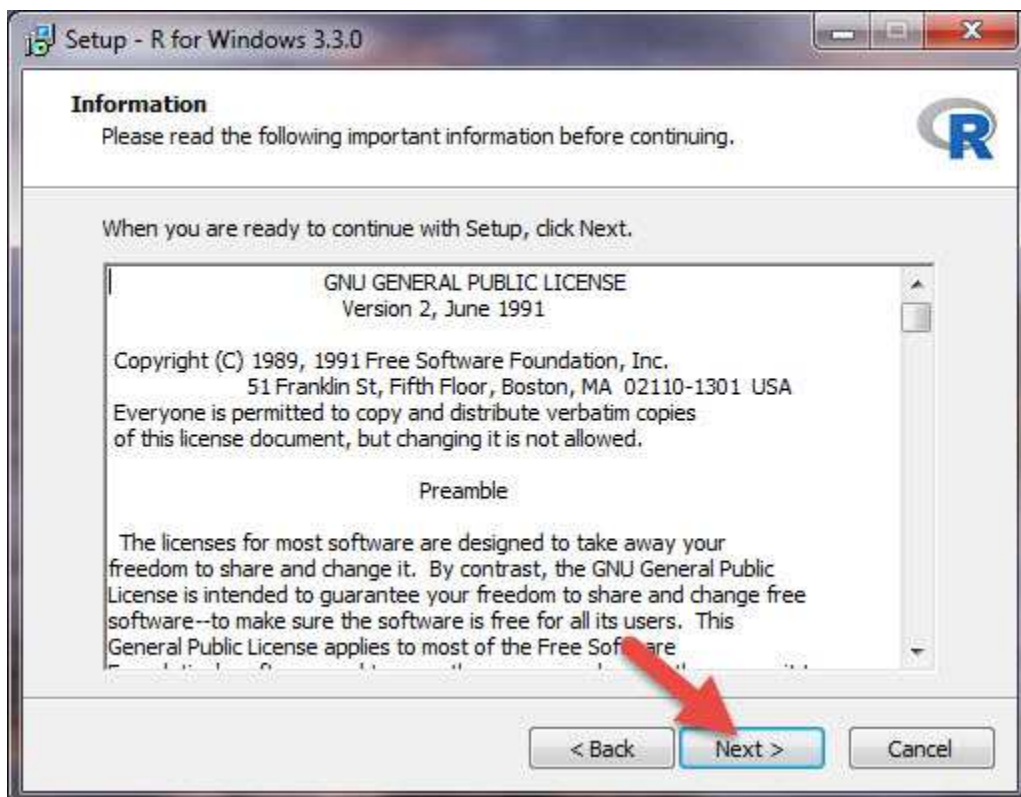
Select the language you want to prefer



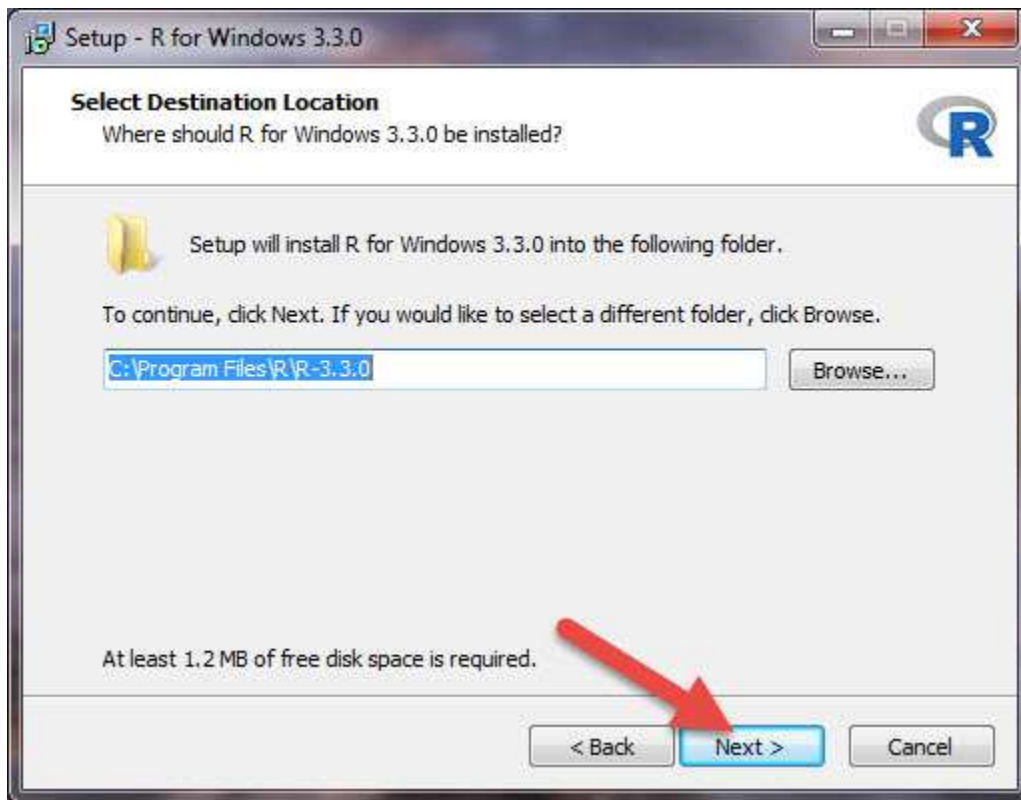
Click on Next Button



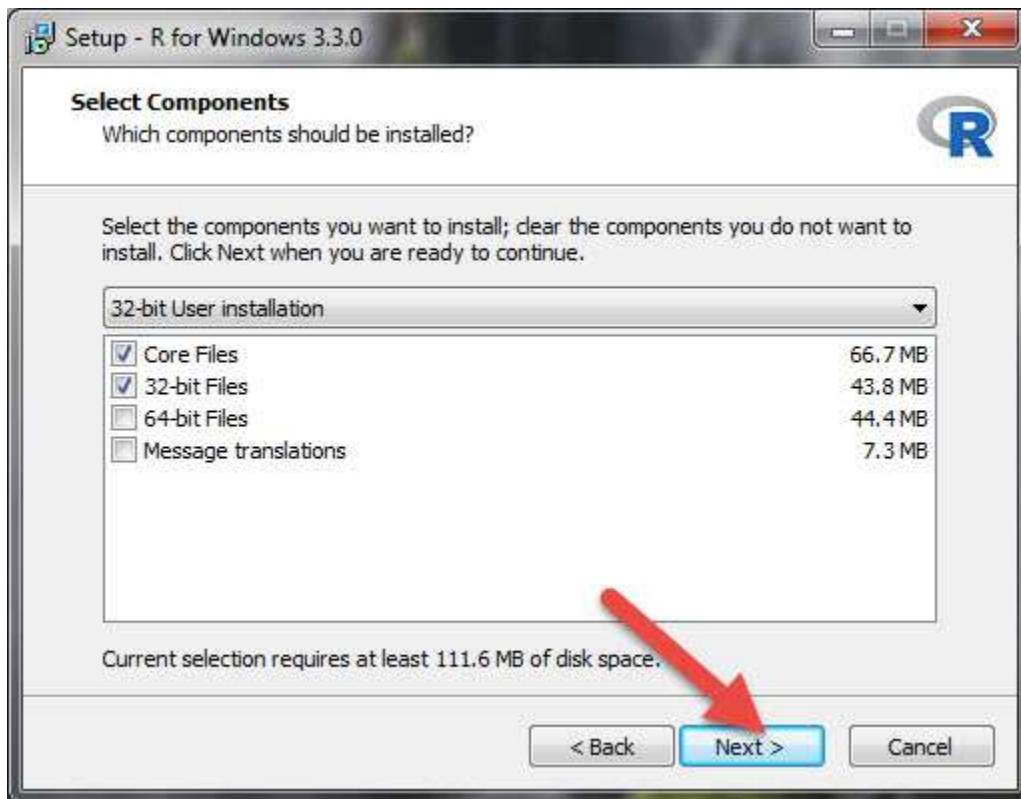
Read GNU General Public Licence Agreement and accept it by click on Next Button



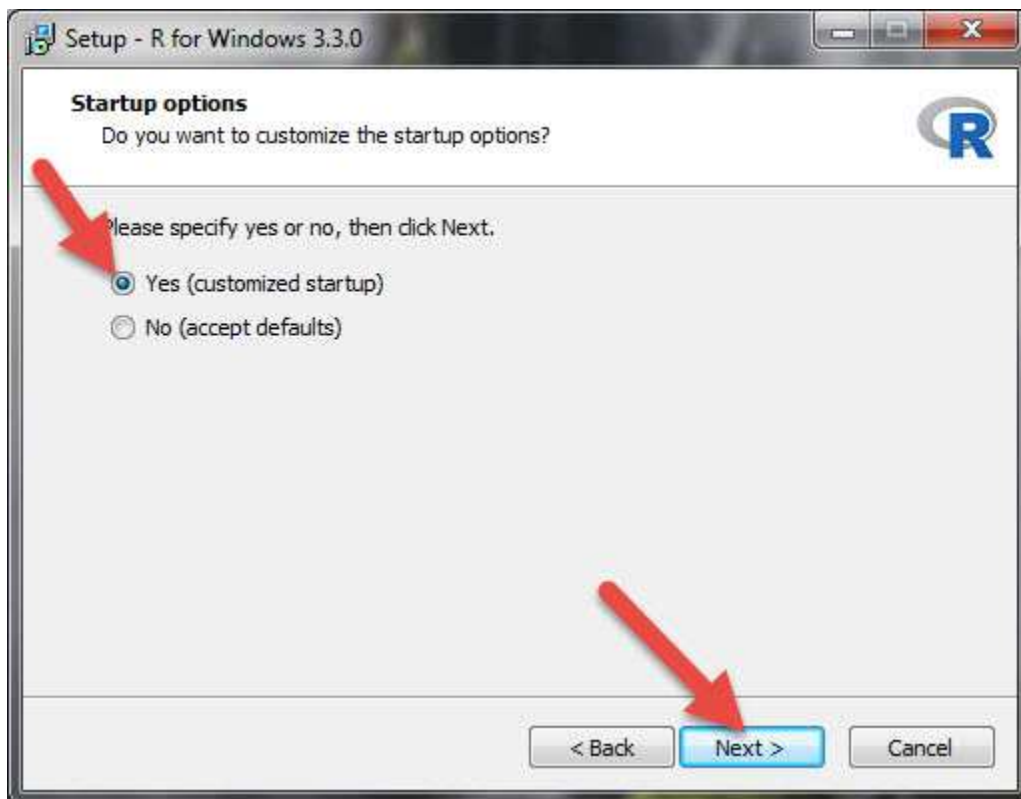
Change the location if you want to install R on different folder or Leave as it is if you prefer same location



Select the components either 32 bit or 64 bit or both based on your operating system



You can customize the start up by selecting yes radio button (by default it is no)



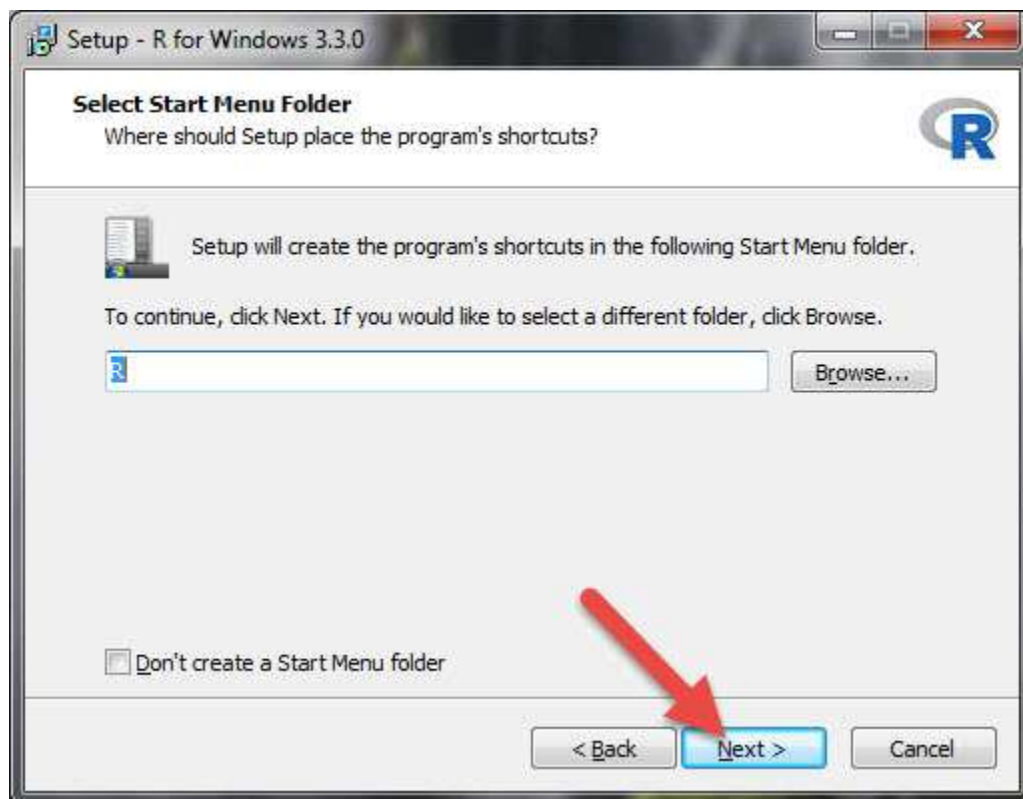
Select either MDI((multiple child windows in one big window) or SDI(separate windows)



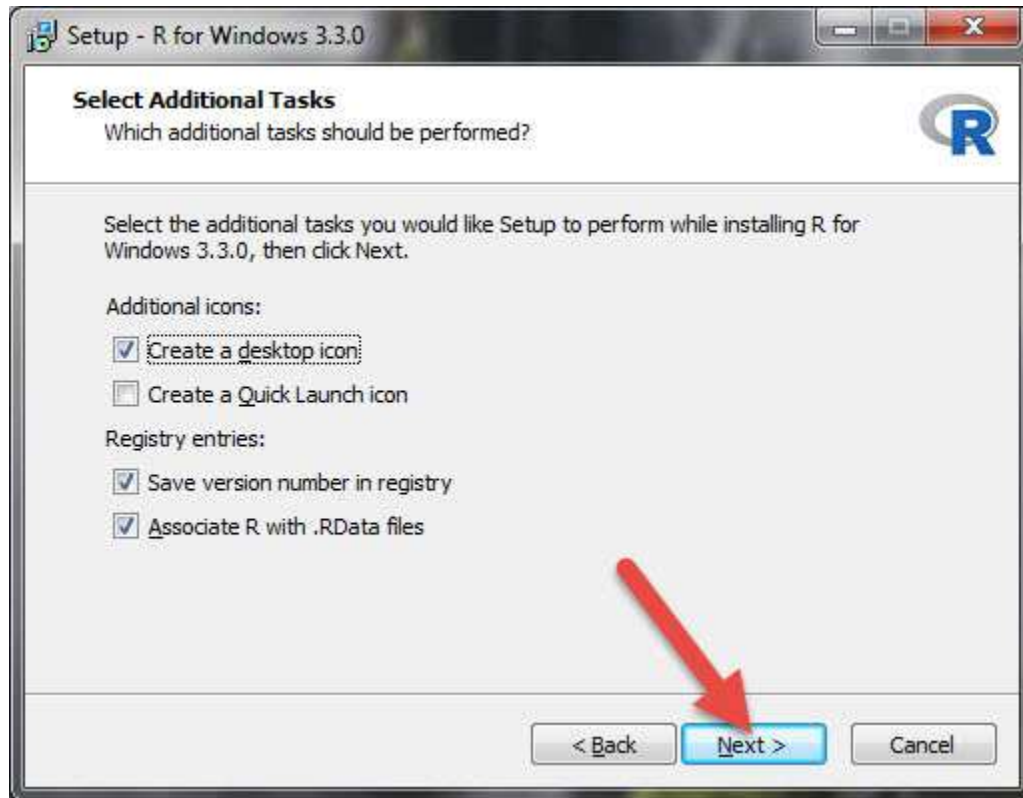
Select Help style as either HTML help or plain text. Html help would be more preferable



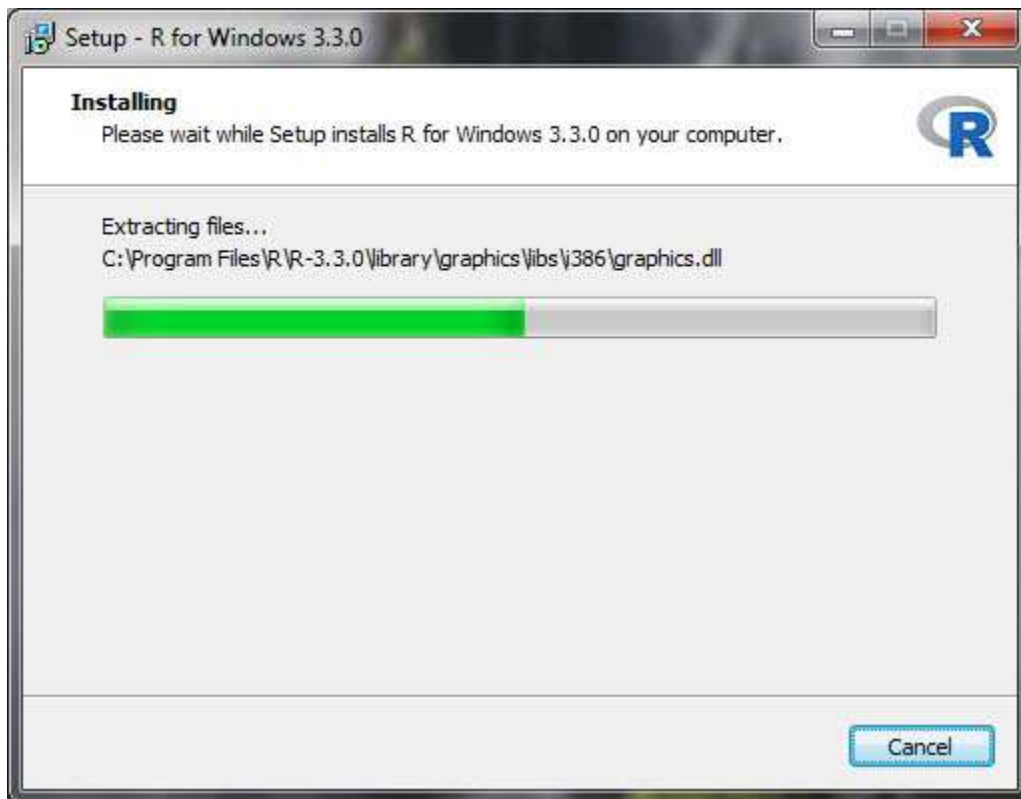
Select the start menu folder to setup program's shortcut. Leave as it is if you don't prefer other folder



Select Additional tasks like icons or registry entries or leave it as default options



Wait for installation to complete



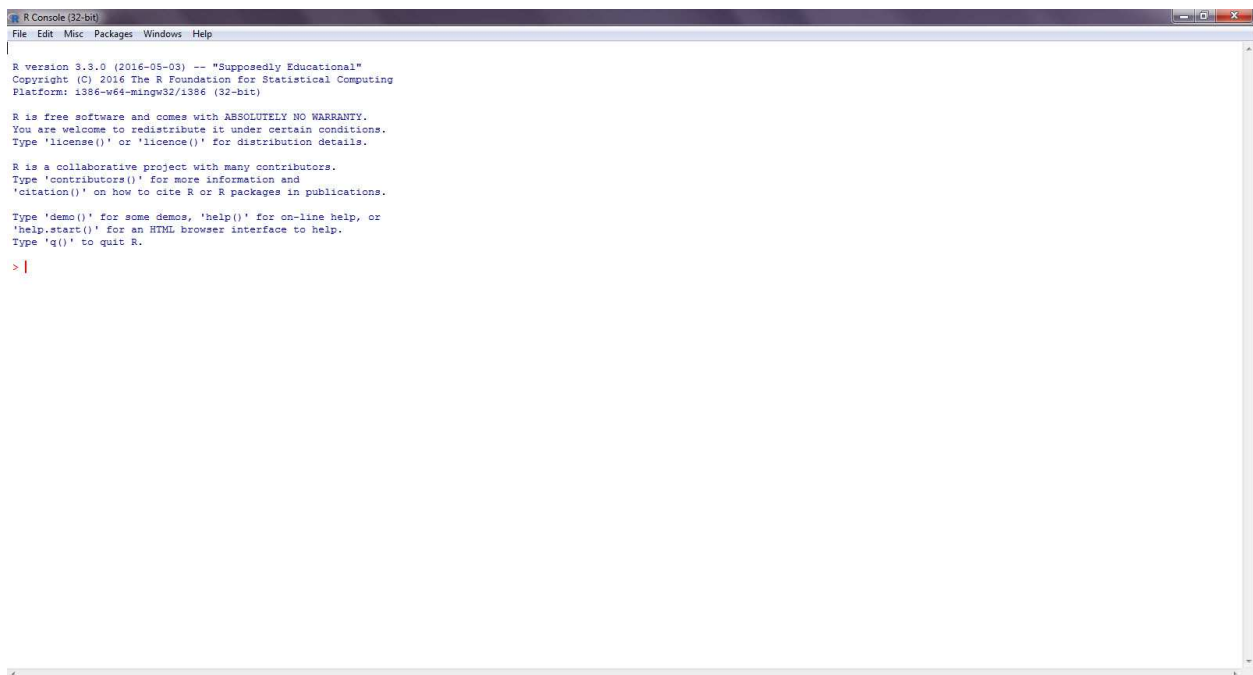
Click on Finish Button to complete the installation process



Finally R will be displayed as Desktop shortcut icon and/or start menu item

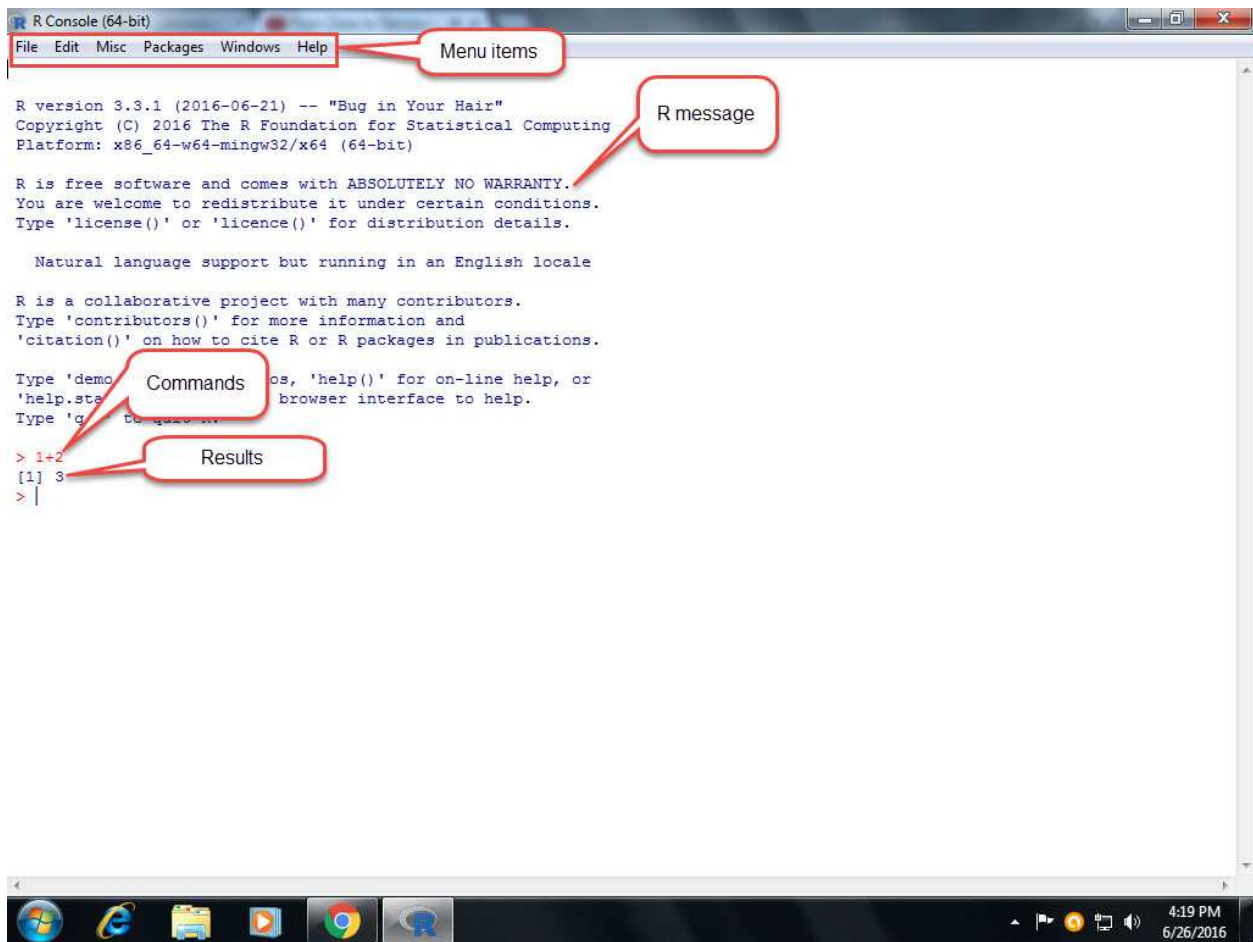


Once click on the shortcut icon/menu item, you will get a R console window



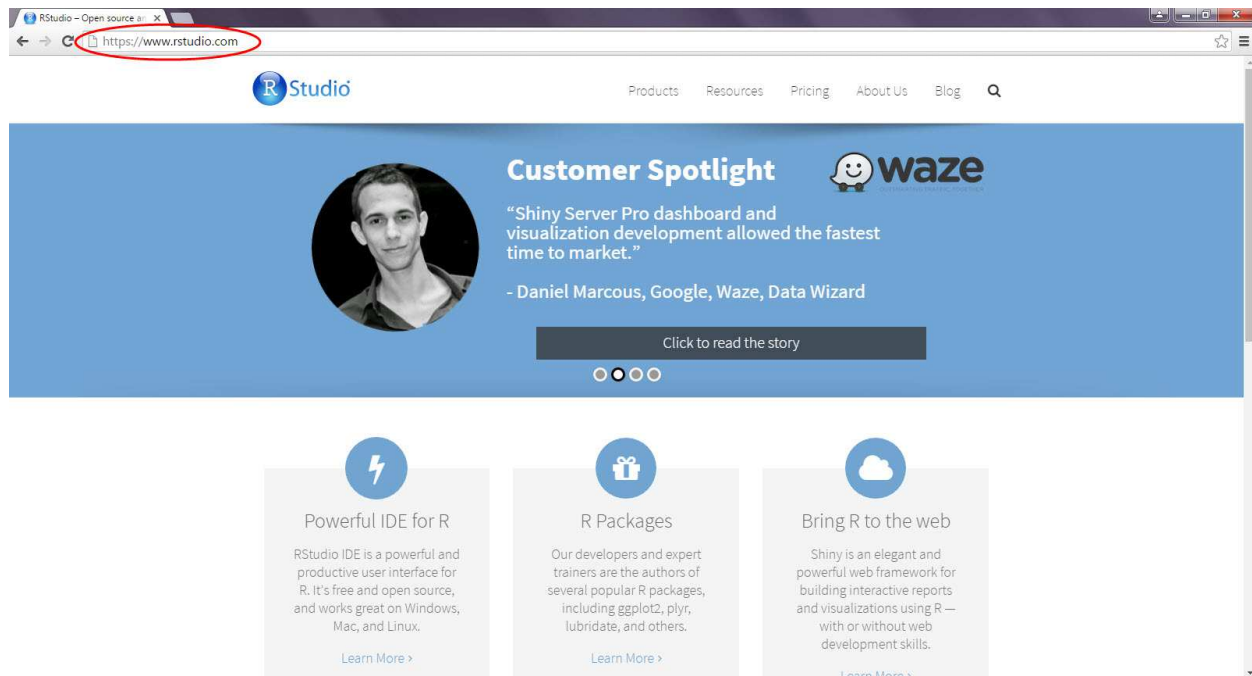
Write any commands after the greater than symbol (>) where the cursor is blinking

Layout of R-Console

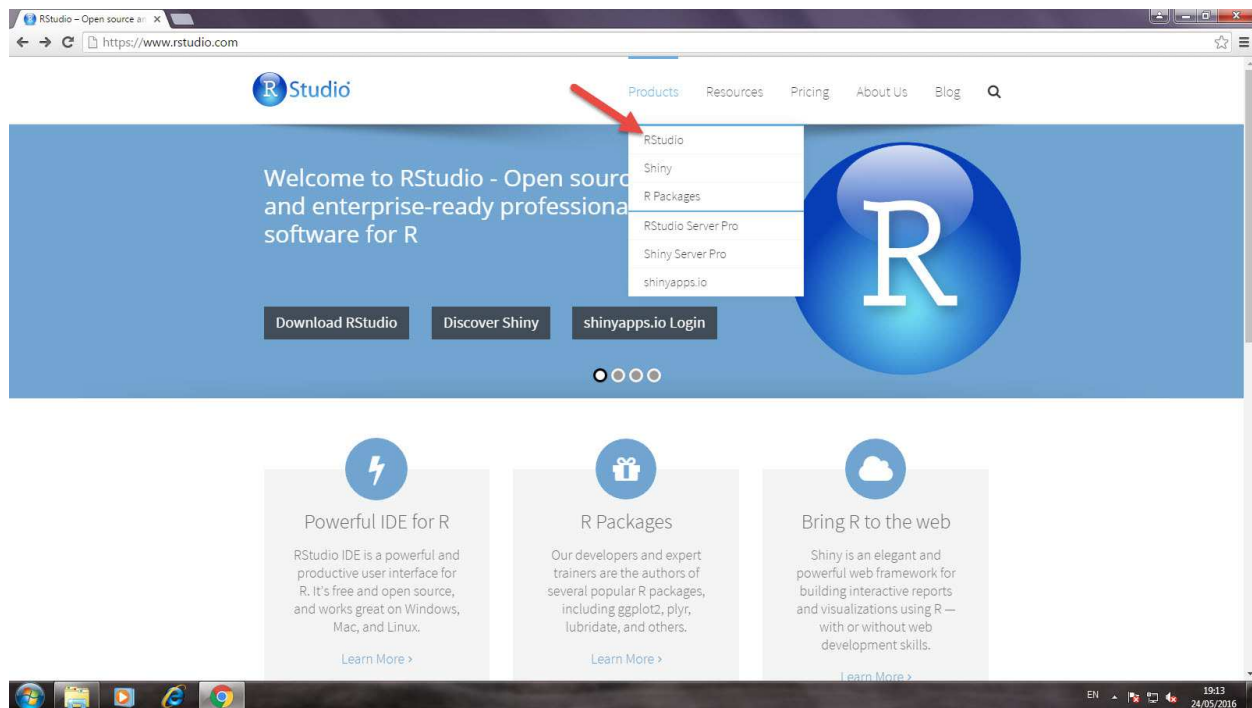


Install R-Studio IDE for Windows

Goto R-Studio website <https://www.rstudio.com/>



Click on Products menu



There are two types of versions available 1) Desktop(standalone) 2) server(browser based interface to Run R on a remote Linux server for Centralized accessing and computation)

In this example Download R Studio desktop version has been chosen for windows operating system

The screenshot shows the RStudio website at <https://www.rstudio.com/products/rstudio/>. The main heading is "Take control of your R code". Below this, there is a video player showing the RStudio logo. To the left of the video, there are two main options: "Desktop" and "Server". The "Desktop" option is highlighted with a red arrow. The "Desktop" option includes the text "Run RStudio on your desktop" and a link "RStudio Desktop". The "Server" option includes the text "Centralize access and computation" and a link "RStudio Server".

Below the "Desktop" and "Server" options, there is a table comparing the "Open Source Edition" and the "Commercial License".

	Open Source Edition	Commercial License
Overview	<ul style="list-style-type: none"> 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 Interactive debugger to diagnose and fix errors quickly Extensive package development tools 	<p>All of the features of open source; plus:</p> <ul style="list-style-type: none"> A commercial license for organizations not able to use AGPL software Access to priority support
Support	Community forums only	<ul style="list-style-type: none"> Priority Email Support 8 hour response during business hours (ET)
License	AGPL v3	RStudio License Agreement
Pricing	Free	\$995/year

At the bottom of the table, there are two buttons: "DOWNLOAD RSTUDIO DESKTOP" and "BUY NOW". A red arrow points to the "DOWNLOAD RSTUDIO DESKTOP" button.

Below the table, there is a section for "RStudio Server".

Choose either single installer file, or archived zip folder based on the operating system of the machine

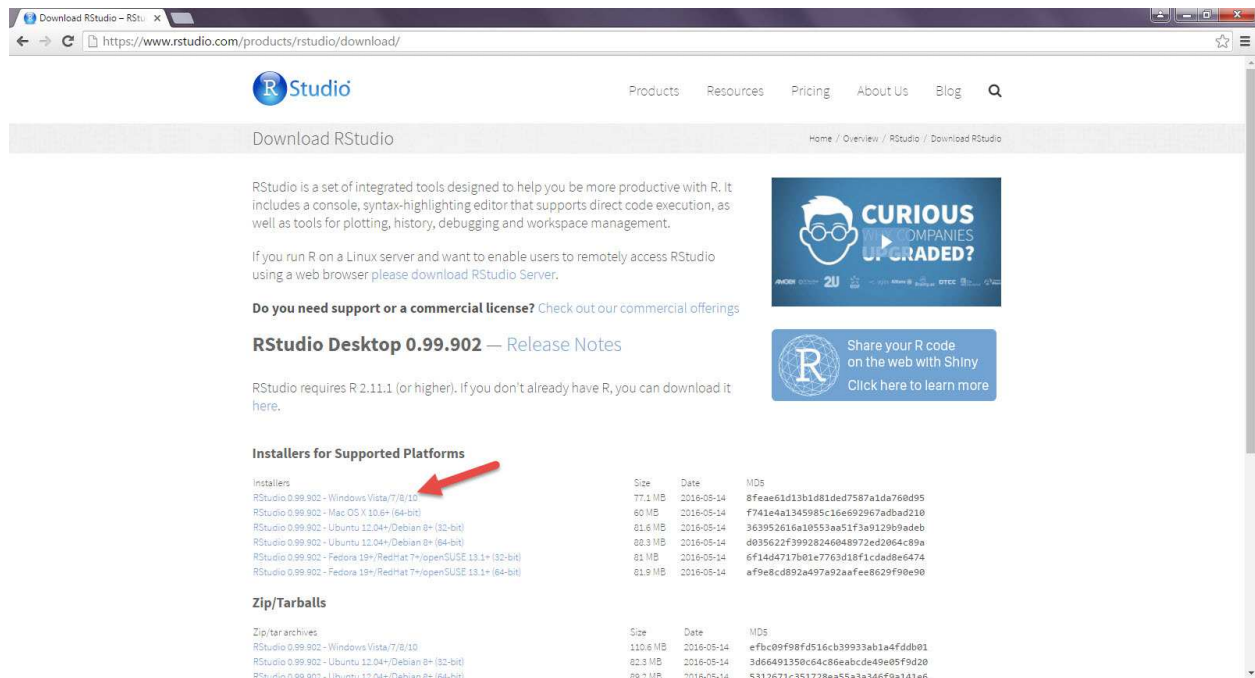
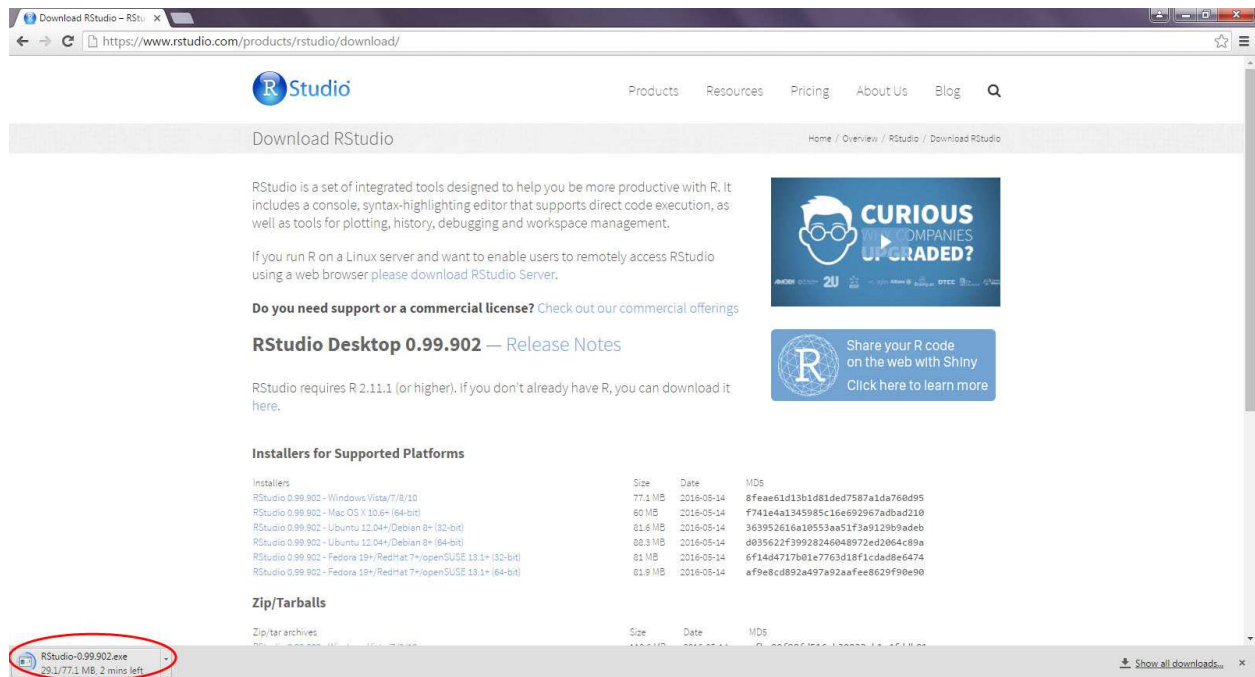
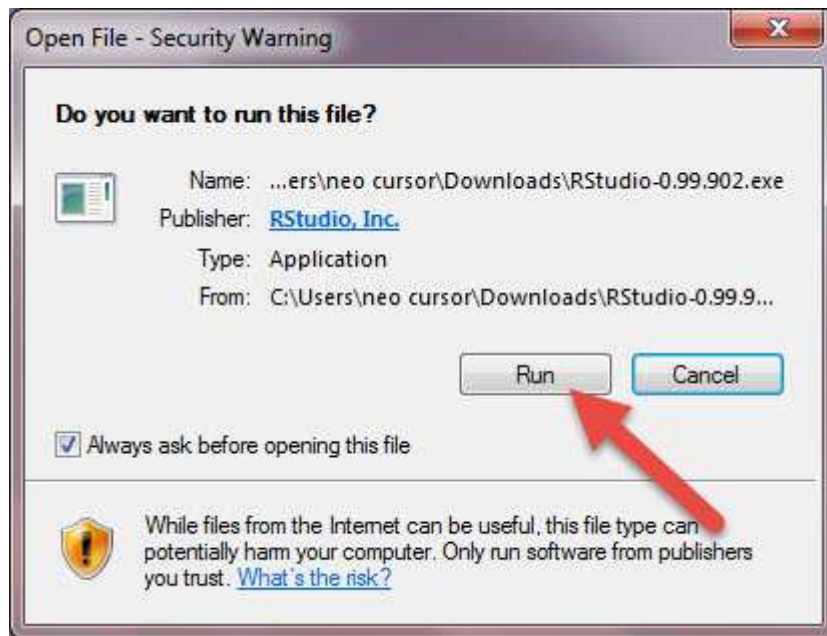


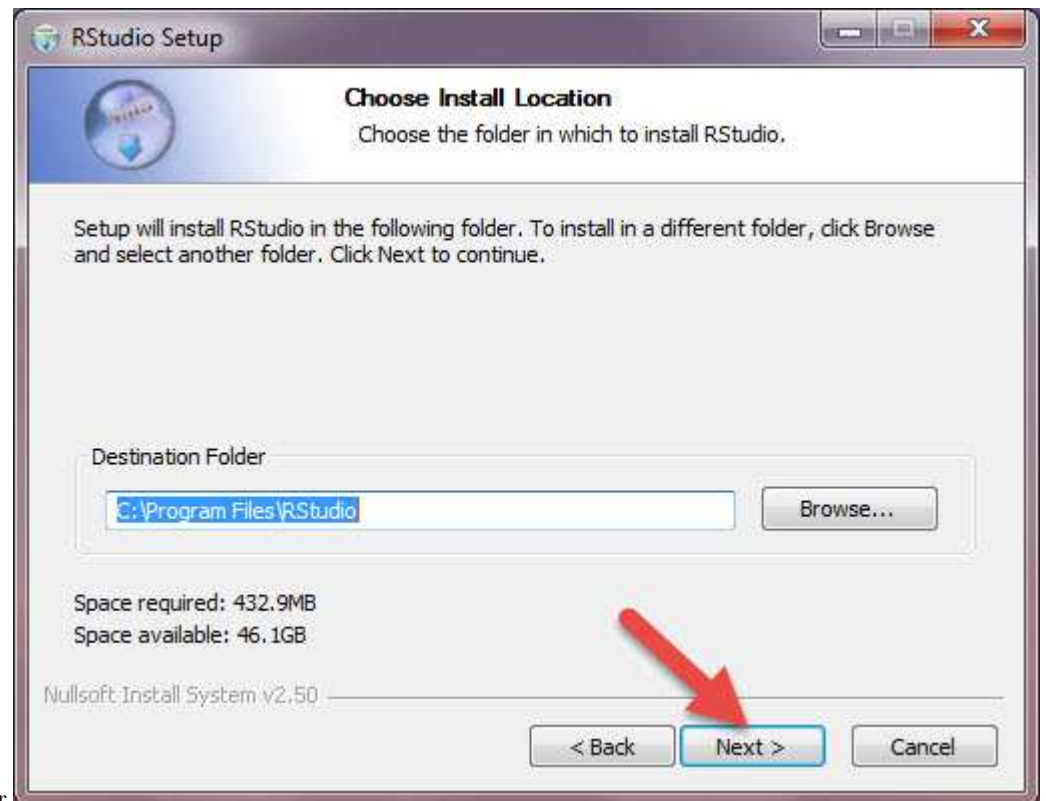
Figure 1: optional caption text



After the complete installation,click on the installed file and choose Run Button

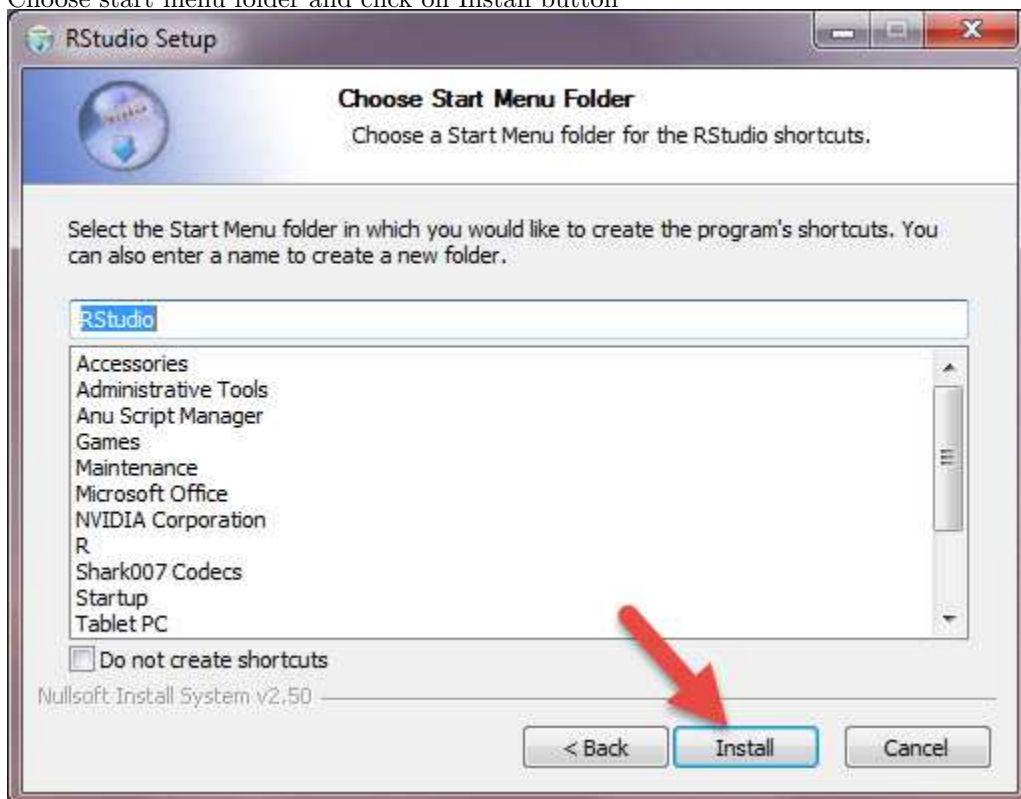


Click on Next Button

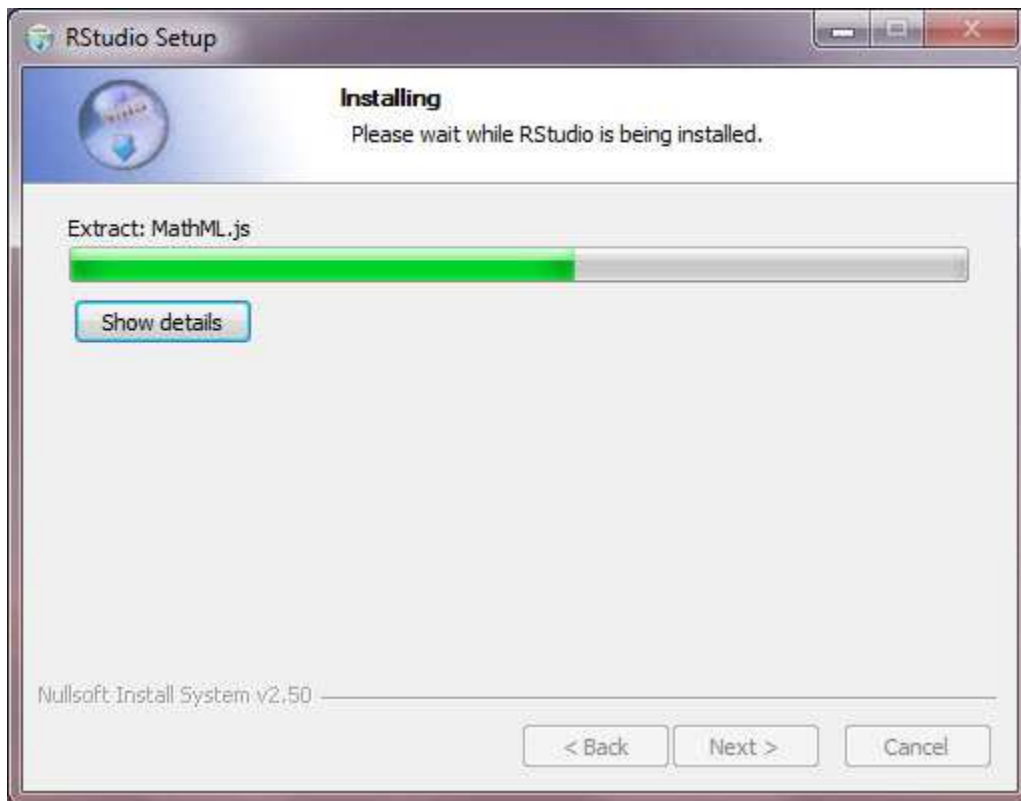


Choose the destination folder

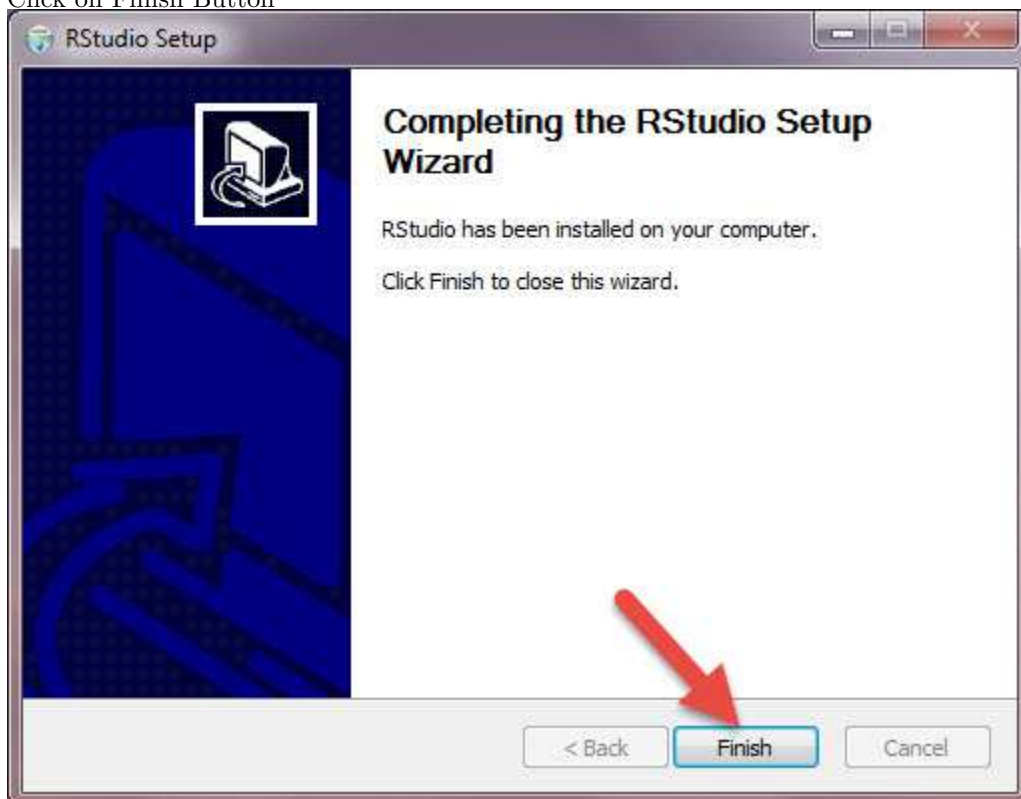
Choose start menu folder and click on Install button



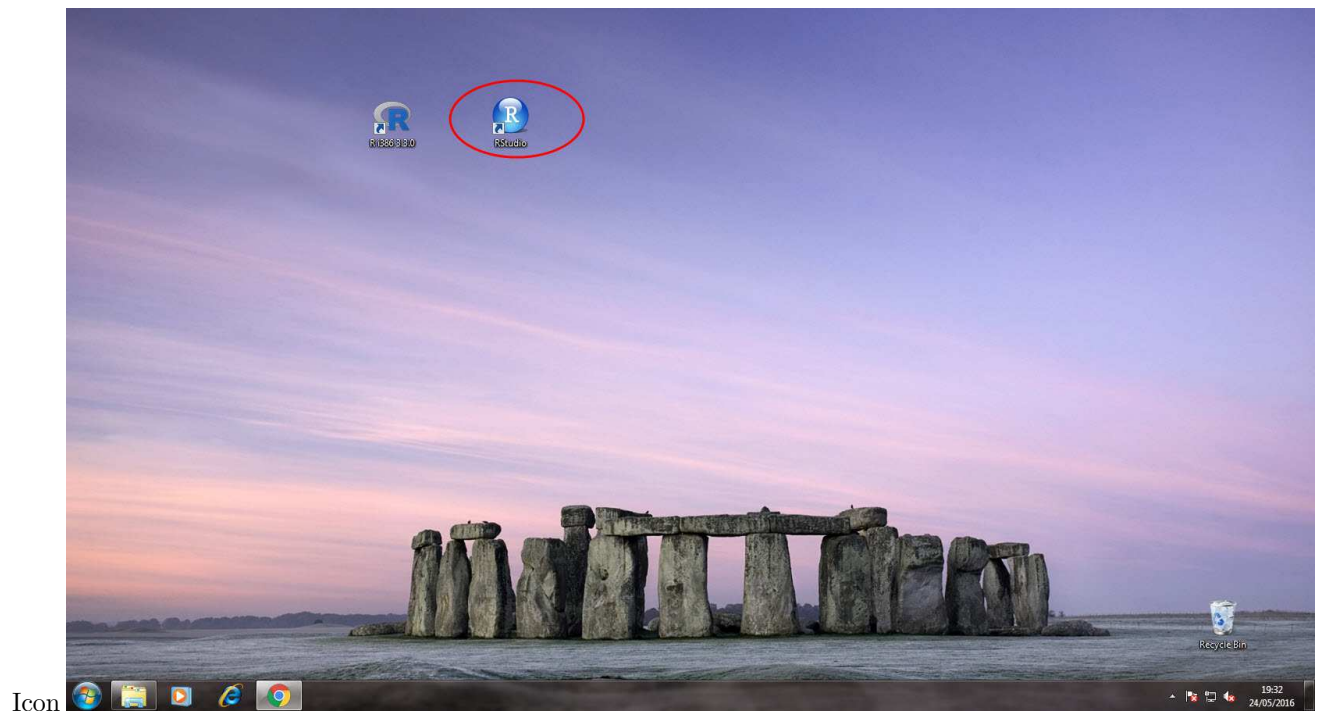
Wait until installation completed



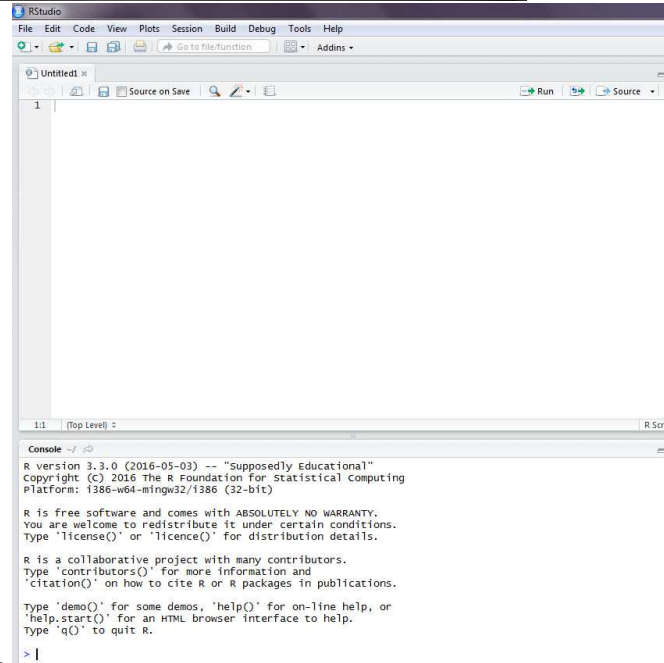
Click on Finish Button



Check the desktop

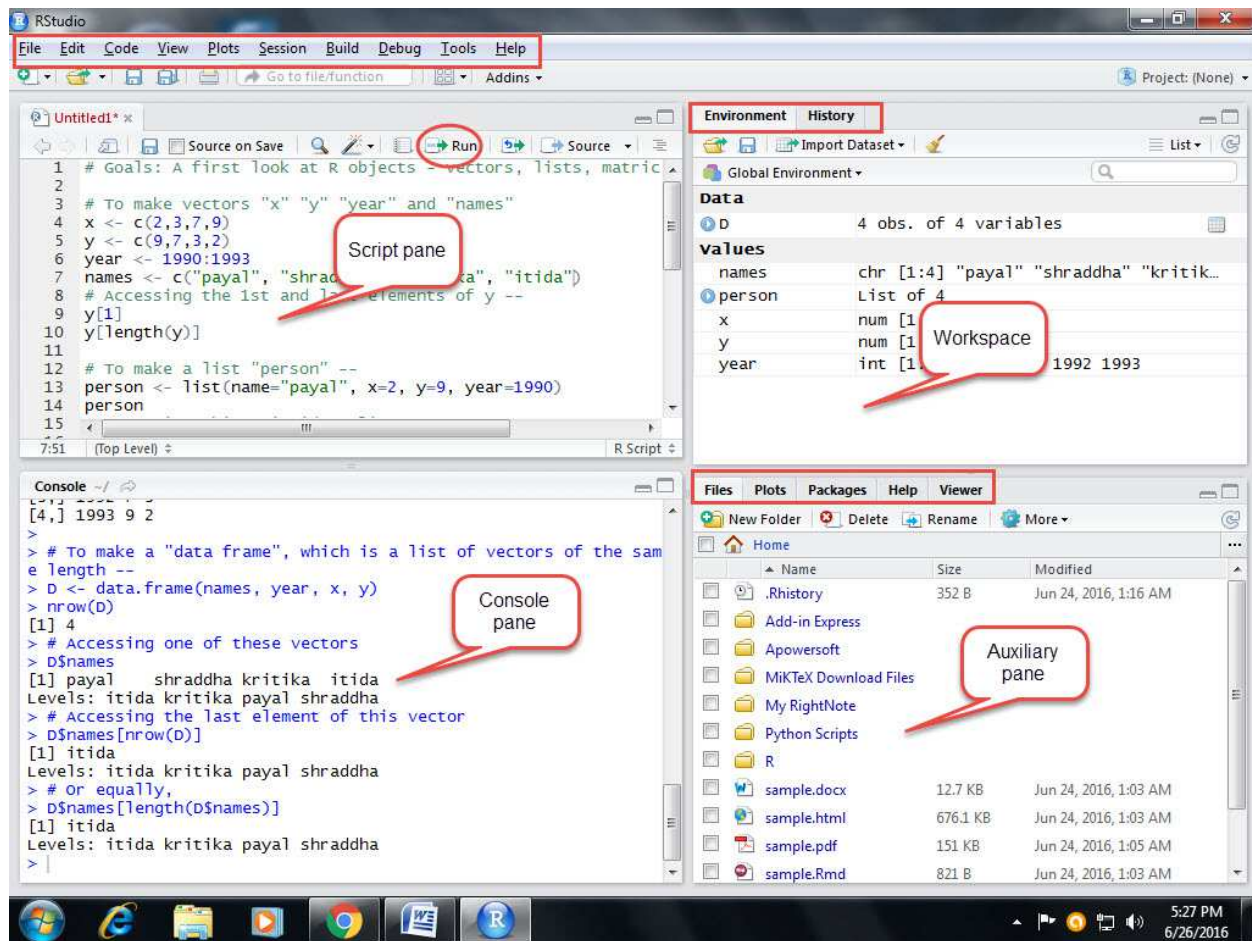


Icon



Once click on desktop shortcut icon, the R-Studio window will be open

Layout of R-Studio



Basic Structure of R

explanation

Syntax

- R programming is case sensitive, which means for example a letter 'm' is not equal to 'M'
- Comments can be written by using # at the beginning of the statement
- We can Run single/multiple lines of code. This is much more flexible because of it's interpreted nature
- Script files are saved with .R extension, workspace saved with .RData, code history saved with .Rhistory
- R has two assignment operators which can assign values into objects. less than symbol followed by the hyphen (<-) or Equal operator (=)