INTRODUCTION TO R

Installing R

https://cran.r-project.org

Select R for windows

Select base

Download the available version

Options:

➢ Display Mode – One big window, Separate windows

➢ Help – HTML or plain text

RStudio

IDE for R

Similar to Eclipse for Java

https://rstudio.org

Download RStudio desktop

Navigating RStudio

- ➢ Console
- ➢ Source
- ➢ Environment
- ➢ History
- ➢ Files
- ➢ Plots
- ➢ Packages
- ➢ Help

Installing a package

➤ Packages are collections of R functions, data and compiled code in a well-defined format

➤ Two methods of installing a package:

- From packages window
  - Go to Packages window
  - Click 'Install Packages'
  - Mention the package name

- Through command line
  - install.packages("readr")

Loading a package

- Click on the checkbox against the package you want to use
- library(readr)
- require(readr)

Setting working directory

➢ Working directory is where R finds all of its files for reading and writing

➢ Check your current working directory using the command getwd()

➢ Set your working directory using the command setwd("C:\\Users\\Admin")

Getting Help

- ➢ Using Help menu
- ➢ help("var")
- ➢ ?var
- ➢ help.search("var")
- ➢ ??var
- ➢ stackoverflow.com
- ➢ r-help@r-project.org
- ➢ While using forum or mailing list:
  - ▪ State you end purpose
  - ▪ Steps to reproduce
  - ▪ Expected vs Actual output
  - ▪ Version you are using
  - ▪ Packages you are using
  - ▪ Operating system