Biostatistics: Theory and Applications in R (Virtual)

Week1_Session2_R_training1

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#Open and save R script

```
#Open File - New file - R script - Untitled file
# This is not a hashtag
# Everything that stands behind the "#" symbol will be ignored by R
#####Save Untitled R script
#Untitled file - File - Save AS - give file name - Save in your desired location
# Arithmetic operators, basic math
1+1
1 + 1
16-56
3*5
4/2
1/3
2^3 # "2 to the power of 10"
#Very small/large numbers: "scientific notation"
2*10
10^2
2*10^1
2*10^2
2*10^3
2*10^4
2*10^5 # when numbers have lots of 0's at the end, R switches to scientific notation
2*10^10
```

2*10^30

2e+30 # this is how R stores/displays "2*10^30" 2e+3 # R also accepts this as input

2*10^-3 # the same for many 0's at the beginning 2e-3 # 3 digit after the decimal 2e+3 # three 0 after the number

2e-10 # big number display same

#Operator precedence

3 * 2 + 2

2 + 2 * 3 # R knows math: multiplication first

(2 + 2) * 3 # parentheses, i.e. round brackets are used to modify precedence

#Set the working directory

getwd() #to check your working directory

setwd("C:/Users/Fahmida Sultana/Desktop/R training") # set the working directory

getwd() #to check your working directory

dir.create("C:/Users/Fahmida Sultana/Desktop/R1/R7") #create working directory

#R Packages installation

library(ggplot2)

ggplot2 #install ggplot2 package #Click Packages - click Install - write the package name - click Install #If not installed, please check your internet connection. ?install.packages