Exploratory Statistical Data Analysis With R Software (ESDAR)

Swayam Prabha

Lecture 1

What is R and How to Learn the Course

Shalabh

Department of Mathematics and Statistics Indian Institute of Technology Kanpur

Slides can be downloaded from http://home.iitk.ac.in/~shalab/sp



How to Learn and Follow the Course: Basics

Blue Colour Courier New Font means a Command or Syntax in R.

Black colour Calibri font means usual expression.

Example:

Statement: The assignment operators are the left arrow with dash <- and equal sign =

x <- 20 assigns the value 20 to x

x = 20 assigns the value 20 to x

How to Learn and Follow the Course: Basics

Outcome over R console:

```
> x = 20
> x
[1] 20
```

How to Learn and Follow the Course:

Basics

Syntax:

```
y = x * 2 assigns the value 2*x to y.

z = x + y assigns the value x + y to z.
```

Outcome over R console:

```
> y = x * 2
> y
[1] 40
> z = x + y
> z
[1] 60
```

How to Learn and Follow the Course: Basics

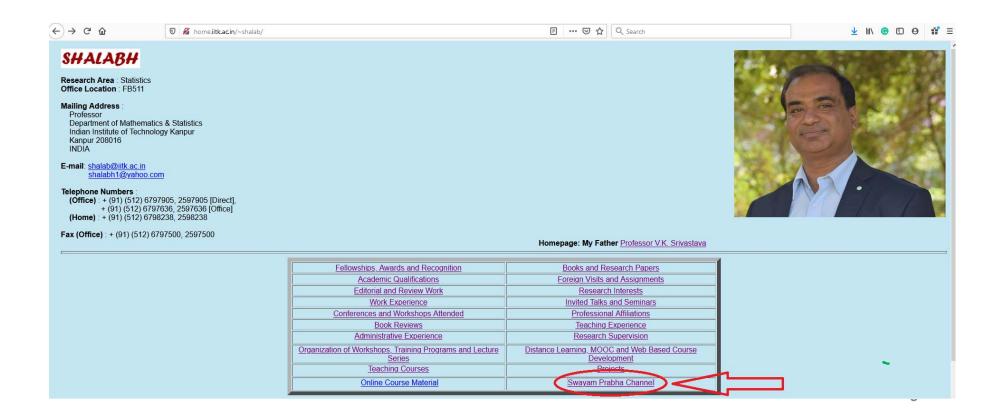
Screenshot of outcome over R console

R Console > x = 20> x[1] 20 > y = x * 2> y [1] 40 > z = x + y> z [1] 60

How to Learn and Follow the Course: Slides of the course

Search "Shalabh IIT Kanpur" in any search engine or open http://home.iitk.ac.in/~shalab/

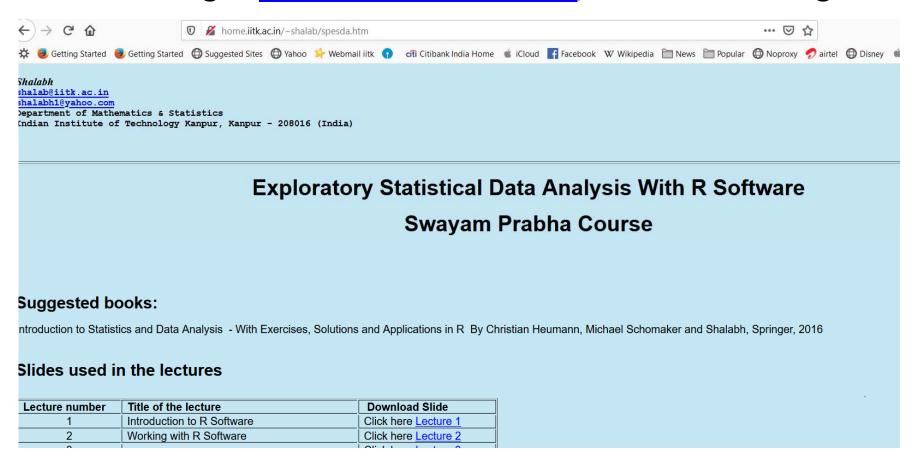
Click at Swayam Prabha Channel



How to Learn and Follow the Course: Slides of the course

Search "Shalabh IIT Kanpur" in any search engine or open http://home.iitk.ac.in/~shalab/

After clicking at Swayam Prabha Channel, come to following:



How to Learn and Follow the Course: Slides of the course

Scan following QR code and it will come at http://home.iitk.ac.in/~shalab/sp.htm

