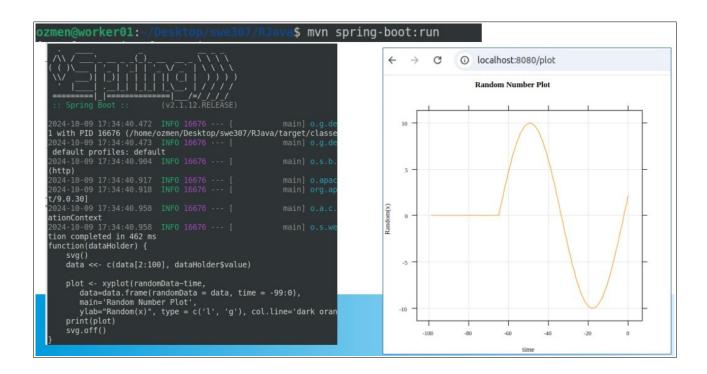
## SWE 307 - 2024 BIG DATA PROJECT - 1 DESCRIPTION

Due date: 24.10.2024 Thursday, in class.

In this project, you are asked to implement a \*Java Spring-Boot\* web application that calls one of the \*R\* plot functions over GraalVM. Your application will read a line from CVS file and send the selected column data to R-function to plot a dynamic graph on the brovser.

What is required from you is as follows:

- 1) Use only one column from given CSV file (swe307\_pro1.csv), such as first group will use only \*Col-1\* data. There are 100 rows (100 data) in the file, and this file will be opened, read by Java not R.
- 2) Your Java program will read one consecutive row every second from the file, and the double number read will be sent to the R function for plot as shown in the class.
- 3) Preferebly use \*xyplot()\* from lattice library. In your plot, x axis will be integer from [0-99] and y axis will plot the double value sent from your Java program.
- 4) Your plot should be \*line\* type and the line color should be \*dark brown\*. Use \*grid\* in your graph (see Figure 1).



**Figure 1.** Data visualization on the web using Java and R.

**PS:** Example image files and csv files will be provided on Github repository, you can clone/download everything provided.

Link: https://github.com/ozmen54/SWE307-2024.git