DAT320: Compulsory assignment Y

Group Y

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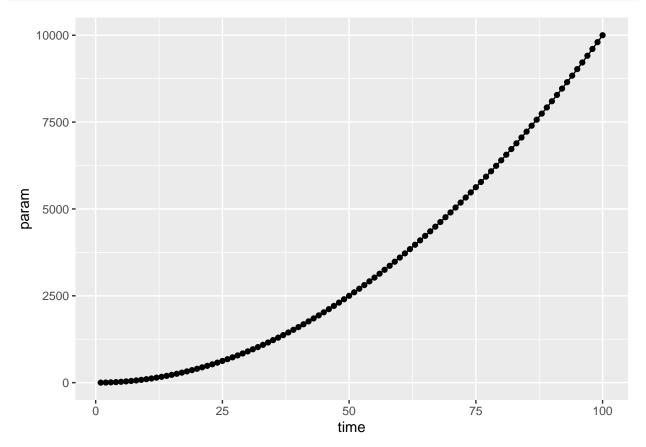
Exercise 1

Task 1

The following code block serves as example on writing R markdown documents.

```
# loading necessary packages
library(ggplot2)

d = data.frame(time = 1:100, param = (1:100)^2) # defining a data.frame d
ggplot(d, aes(x = time, y = param)) + # a simple plot
    geom_line() +
    geom_point()
```



Don't forget to provide explanations with your results.

Task 2

You may reuse variables and packages you have defined in earlier code blocks:

str(d)

```
## 'data.frame': 100 obs. of 2 variables:
## $ time : int 1 2 3 4 5 6 7 8 9 10 ...
## $ param: num 1 4 9 16 25 36 49 64 81 100 ...
```

Exercise 2

Task 1

You may use LaTeX notation within R markdown as well:

$$\operatorname{acf}(.) = \operatorname{cor}(x_t, B^k(x_t))$$

Literature

More information about R markdown can be found here: http://www.rmarkdown.com