SRT411 Assignment 0

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Introduction to Assignment

For this particular assignment, I am going to perform To-do list as provided in the link [1]. With that, I need to convert the file with .rmd extenstion to .pdf extension using knitr. In addition, its also helpful in learning content like [2],[3],[4],[5],[6],[7] from the website. And finally, I will learn how to make repositiories to present my files on github using my account credentials.

The TO-DO

1)

```
((2018-2014)/(2014-1999))*100
```

```
## [1] 26.66667
```

2)

```
a=((2018-2014)/(2014-1999))*100
a
```

```
## [1] 26.66667
```

3)

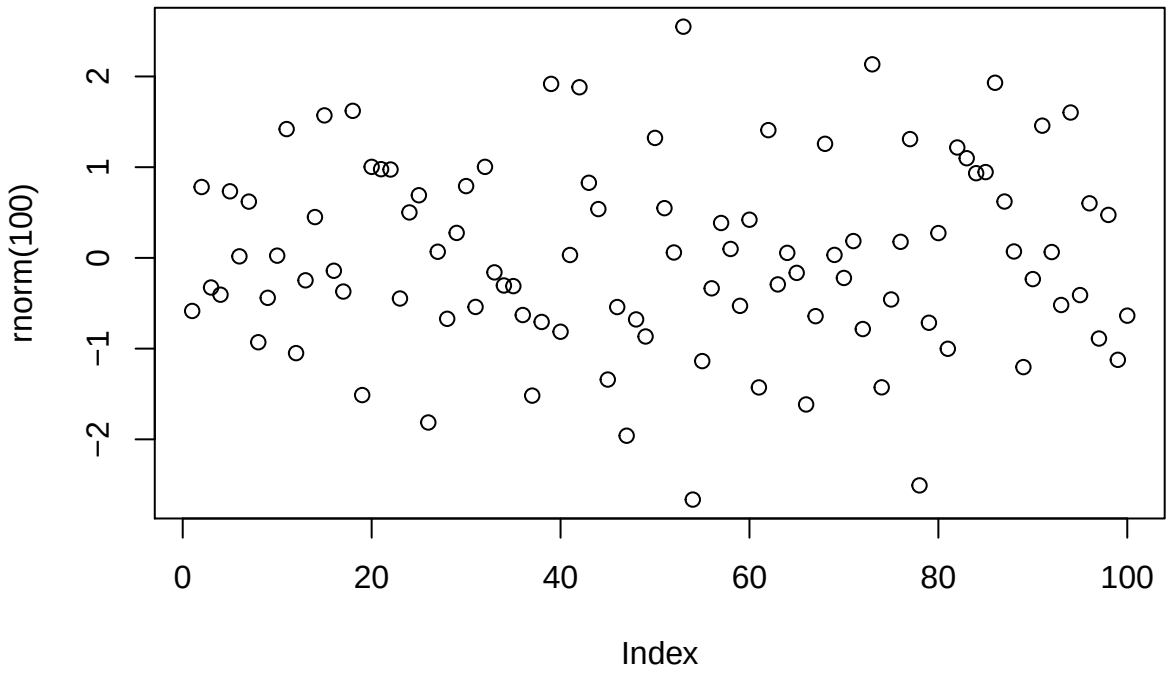
```
sum(4,5,8,11)
```

```
## [1] 28
```

4)

```
plot(rnorm(100))
```

[1] https://cran.r-project.org/doc/contrib/Torfs+Brauer-Short-R-Intro.pdf
[2] http://rmarkdown.rstudio.com/
[3] http://nicercode.github.io/guides/reports/
[4] http://kbroman.org/knitr_knutshell/pages/markdown.html
[5] http://kbroman.org/knitr_knutshell/pages/Rmarkdown.html
[6] https://www.rstudio.com/wp-content/uploads/2015/02/rmarkdown-cheatsheet.pdf
[7] https://github.com/

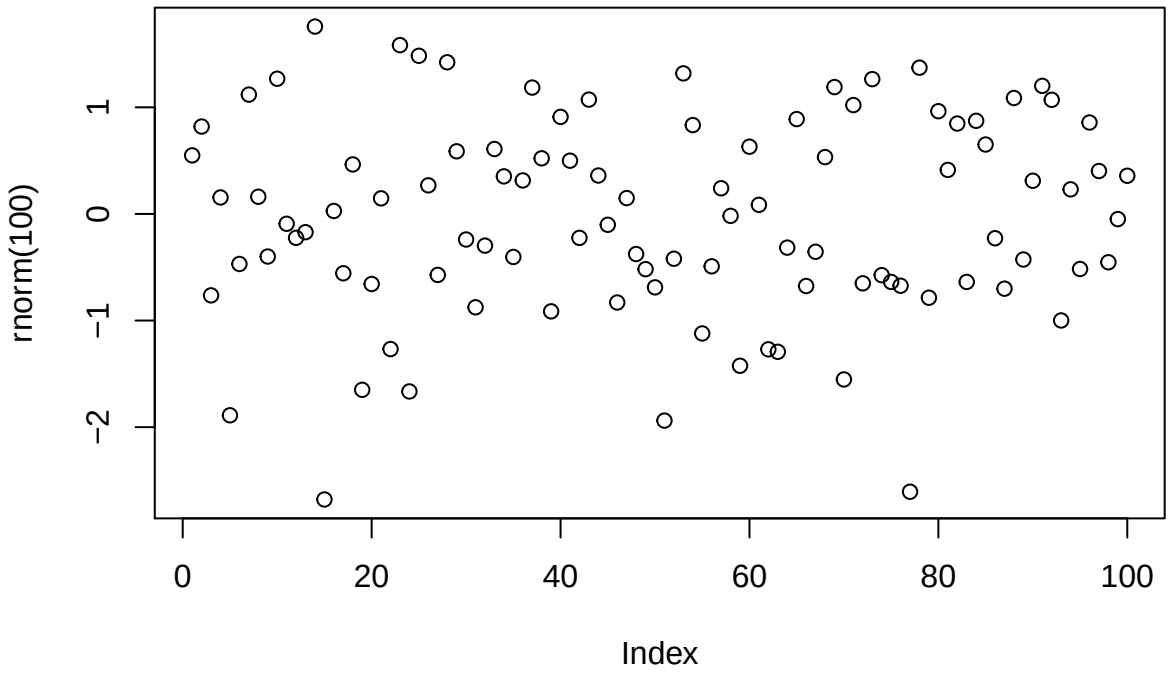


5)

```
help(sqrt)
```

6)

```
plot(rnorm(100))
```



7)

```
P = seq(from=31, to=60, by=1)
Q= matrix(P,ncol = 5, nrow = 6)
P
```

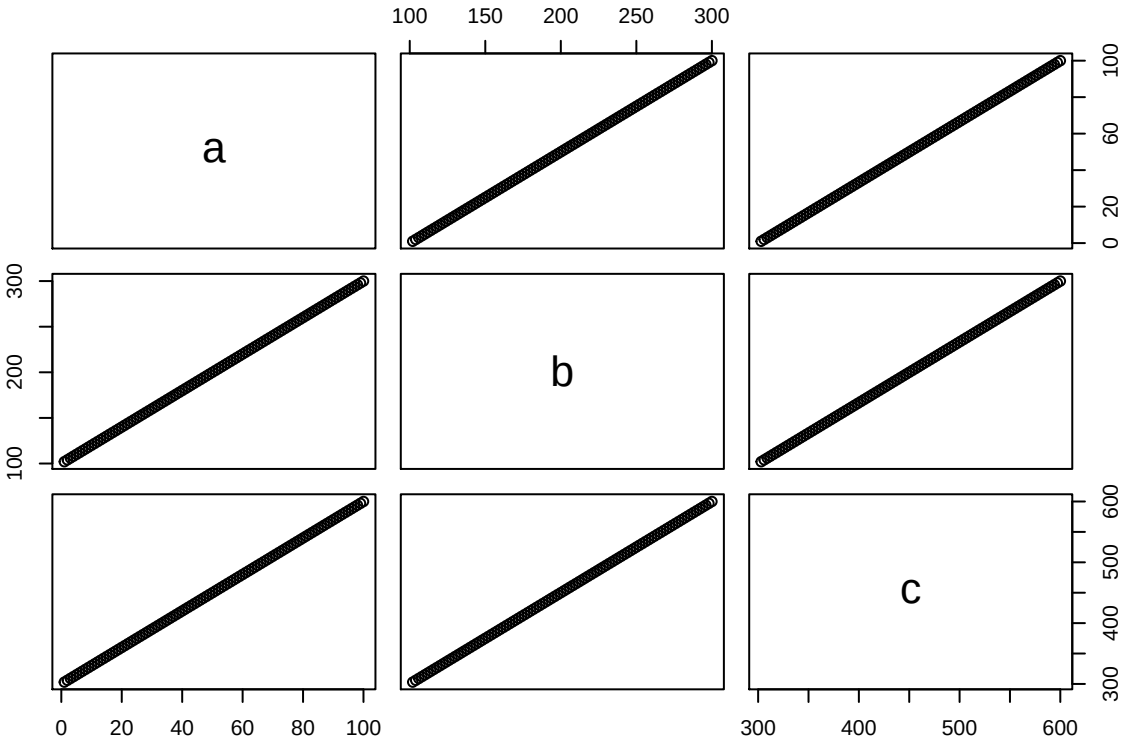
```
##  [1] 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53
## [24] 54 55 56 57 58 59 60
```

```
Q
```

```
##      [,1] [,2] [,3] [,4] [,5]
## [1,]   31   37   43   49   55
## [2,]   32   38   44   50   56
## [3,]   33   39   45   51   57
## [4,]   34   40   46   52   58
## [5,]   35   41   47   53   59
## [6,]   36   42   48   54   60
```

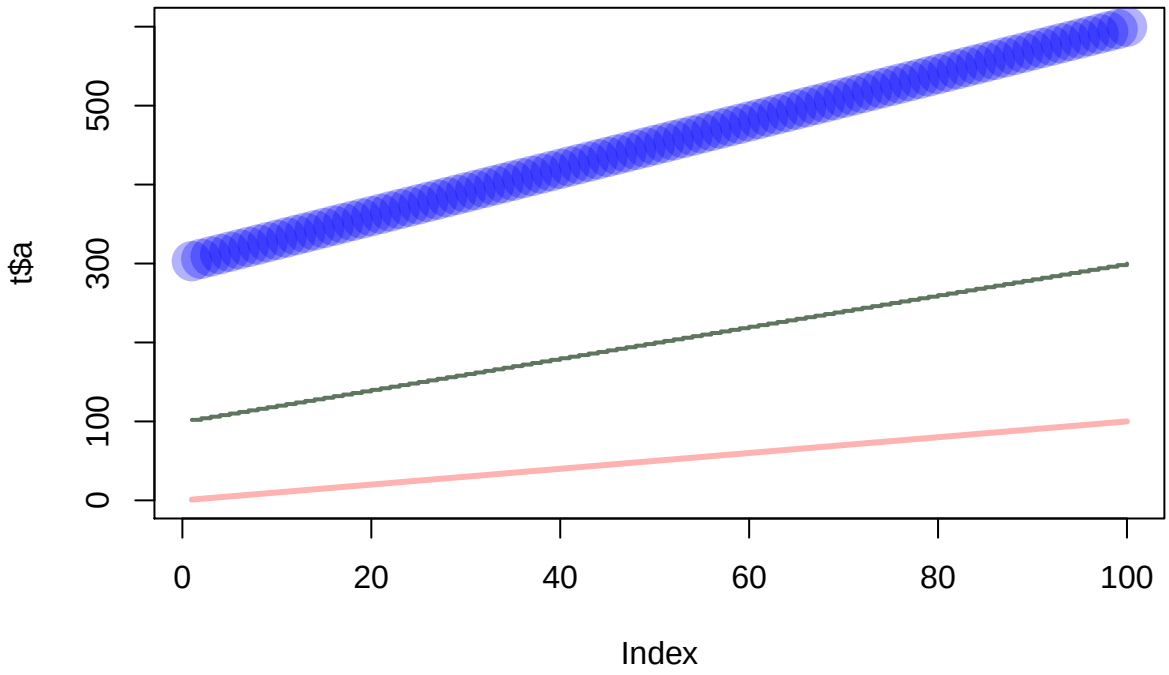
8)

```
x1=seq(from=1, to=100, by=1)
x2=seq(from=101, to=200, by=1)
x3=seq(from=201, to=300, by=1)
t= data.frame(a=x1,b=x1+x2,c=x1+x2+x3)
plot(t)
```



9)

```
plot(t$a, type="l", ylim=range(t),lwd=3, col=rgb(1,0,0,0.3))
lines(t$b, type="s", lwd=2,col=rgb(0.3,0.4,0.3,0.9))
points(t$c, pch=20, cex=4,col=rgb(0,0,1,0.3))
```



10)

```
sqrt(mean(rnorm(100)))
```

```
## Warning in sqrt(mean(rnorm(100))): NaNs produced
```

```
## [1] NaN
```

11)

```
d = data.frame(g = c(3,4,5),h = c(12,43,54))
write.table(d, file="tst1.txt", row.names=FALSE)
d2 = read.table(file="tst1.txt",header=TRUE)
d2$g*5
```

```
## [1] 15 20 25
```

12)

```
date1=strptime( c("20160127","20161003"),format="%Y%m%d")
present=c(10,6)
date1
```

```
## [1] "2016-01-27 EST" "2016-10-03 EDT"
```

```
present
```

```
## [1] 10  6
```

13)

```
vector=seq(from=1, to=100, by=1)
s=c()
for(i in 1:100)
{
  if(vector[i]<5)
  {
    s[i]=vector[i]*5;
```

```
  }
  else if(vector[i]>90)
  {
    s[i]=vector[i]*10;
  }
  else
  {
    s[i]=vector[i]*0.1;
  }
}
s
```

```
##   [1]    5.0   10.0   15.0   20.0    0.5    0.6    0.7    0.8    0.9    1.0
##  [11]    1.1    1.2    1.3    1.4    1.5    1.6    1.7    1.8    1.9    2.0
##  [21]    2.1    2.2    2.3    2.4    2.5    2.6    2.7    2.8    2.9    3.0
##  [31]    3.1    3.2    3.3    3.4    3.5    3.6    3.7    3.8    3.9    4.0
##  [41]    4.1    4.2    4.3    4.4    4.5    4.6    4.7    4.8    4.9    5.0
##  [51]    5.1    5.2    5.3    5.4    5.5    5.6    5.7    5.8    5.9    6.0
##  [61]    6.1    6.2    6.3    6.4    6.5    6.6    6.7    6.8    6.9    7.0
##  [71]    7.1    7.2    7.3    7.4    7.5    7.6    7.7    7.8    7.9    8.0
##  [81]    8.1    8.2    8.3    8.4    8.5    8.6    8.7    8.8    8.9    9.0
##  [91]  910.0  920.0  930.0  940.0  950.0  960.0  970.0  980.0  990.0 1000.0
```

14)

```
fun= function(arg1,arg2 )
{
  vector[i]=arg1[i];
  for(i in length(vector))
  {

  }
}
```

Refrences

1. https://cran.r-project.org/doc/contrib/Torfs+Brauer-Short-R-Intro.pdf
2. http://rmarkdown.rstudio.com/
3. http://nicercode.github.io/guides/reports/
4. http://kbroman.org/knitr_knutshell/pages/markdown.html
5. http://kbroman.org/knitr_knutshell/pages/Rmarkdown.html
6. https://www.rstudio.com/wp-content/uploads/2015/02/rmarkdown-cheatsheet.pdf
7. https://github.com/