

# IT2120 - Probability and Statistics

## Lab Sheet 09

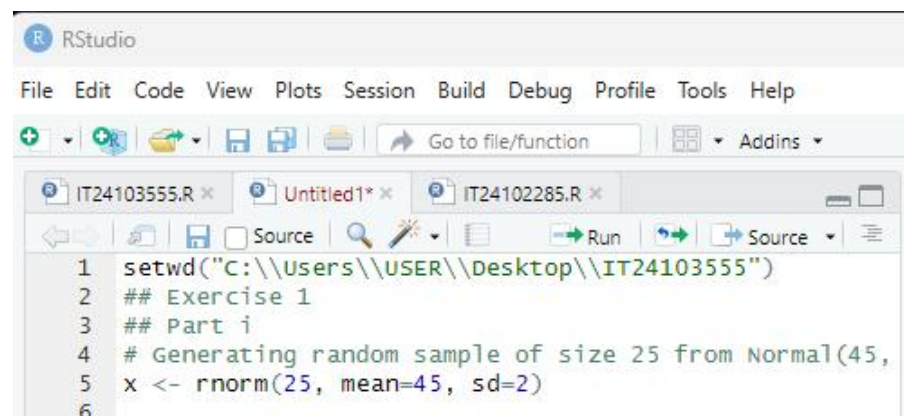
IT24103555

Senan R.A.D.T

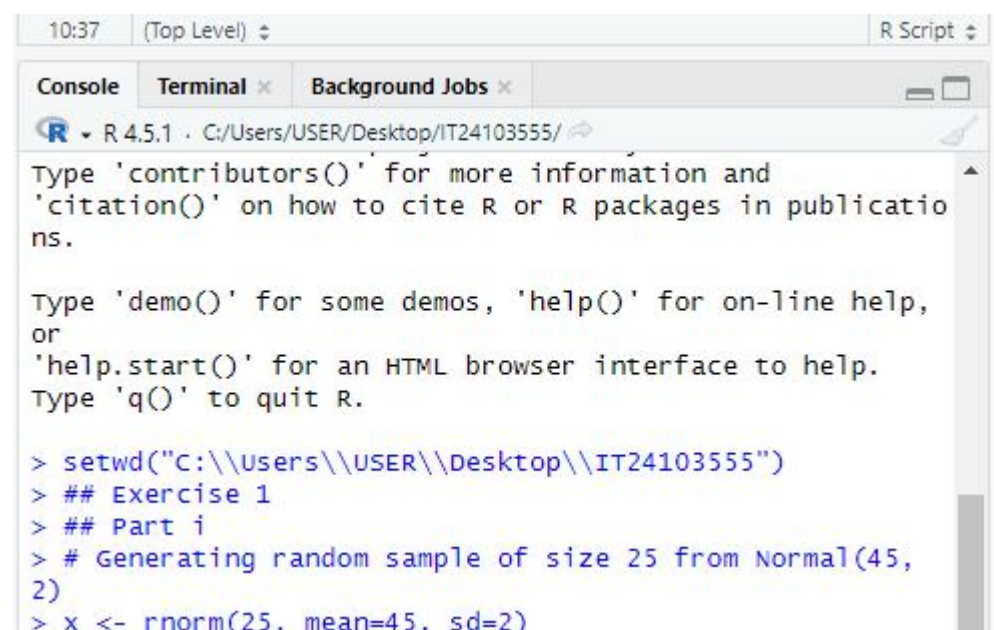
### Exercise

**Instructions:** Create a folder in your desktop with your registration number (Eg: "IT....."). You need to save the R script file and take screenshots of the command prompt with answers and save it in a word document inside the folder. Save both R script file and word document with your registration number (Eg: "IT....."). After you finish the exercise, zip the folder and upload the zip file to the submission link.

1. Assume that the time taken to bake a batch of cookies is normally distributed with mean 45 minutes and standard deviation 2 minutes.
  - i. Generate a random sample of size 25 for the baking time.



```
1 setwd("C:\\Users\\USER\\Desktop\\IT24103555")
2 ## Exercise 1
3 ## Part i
4 # Generating random sample of size 25 from Normal(45,
5 x <- rnorm(25, mean=45, sd=2)
6
```



```
10:37 (Top Level) R Script
Console Terminal Background Jobs
R 4.5.1 C:/Users/USER/Desktop/IT24103555/
Type 'contributors()' for more information and
'citation()' on how to cite R or R packages in publications.

Type 'demo()' for some demos, 'help()' for on-line help,
or
'help.start()' for an HTML browser interface to help.
Type 'q()' to quit R.

> setwd("C:\\Users\\USER\\Desktop\\IT24103555")
> ## Exercise 1
> ## Part i
> # Generating random sample of size 25 from Normal(45,
2)
> x <- rnorm(25, mean=45, sd=2)
```

