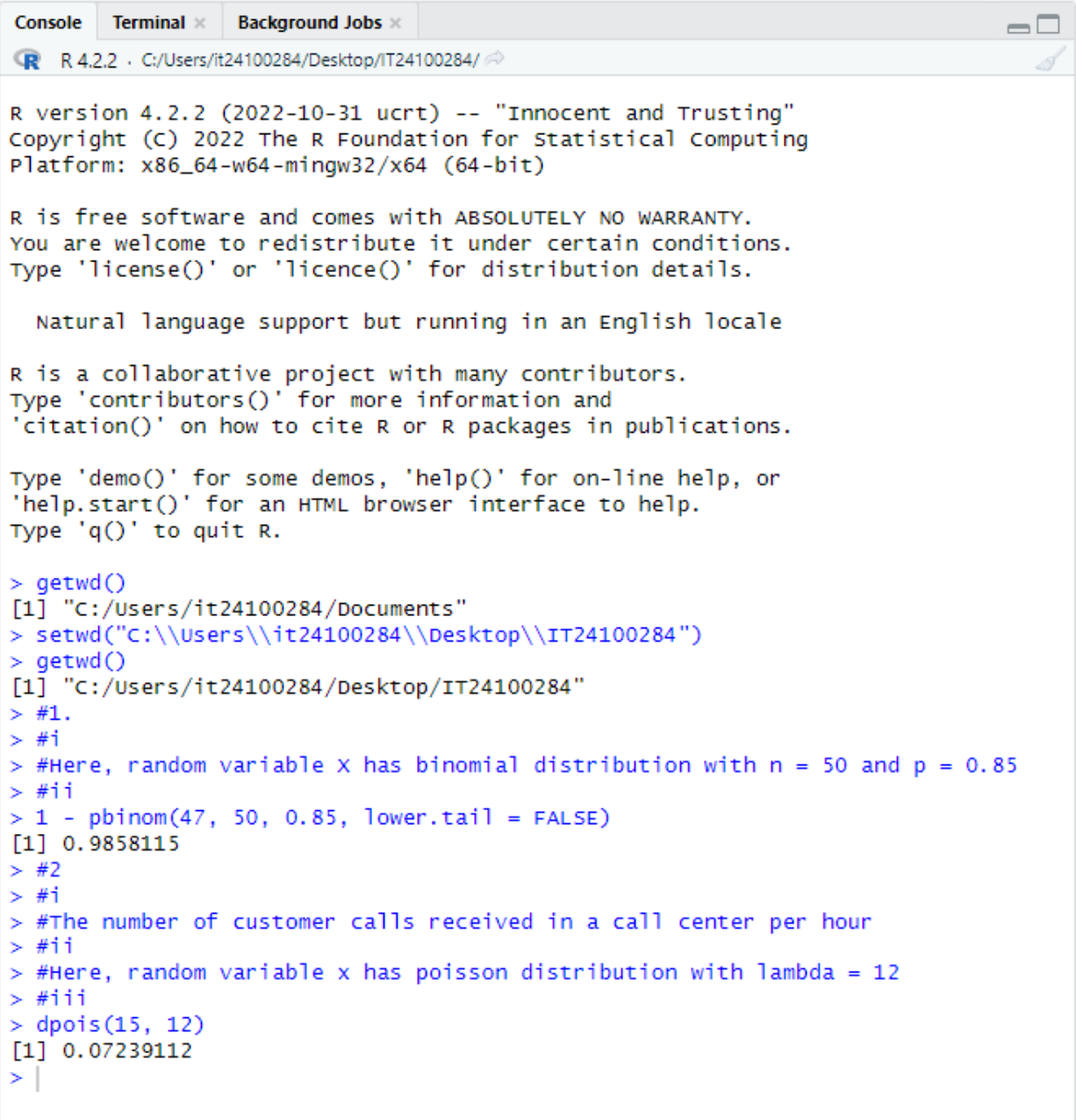# IT2120 - Probability and Statistics
Lab 06

IT24100284

Jayaratne M. Y. I. De S.

```
Console   Terminal ×   Background Jobs ×
R  R 4.2.2 · C:/Users/it24100284/Desktop/IT24100284/

R version 4.2.2 (2022-10-31 ucrt) -- "Innocent and Trusting"
Copyright (C) 2022 The R Foundation for Statistical Computing
Platform: x86_64-w64-mingw32/x64 (64-bit)

R is free software and comes with ABSOLUTELY NO WARRANTY.
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  Natural language support but running in an English locale

R is a collaborative project with many contributors.
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.

> getwd()
[1] "C:/Users/it24100284/Documents"
> setwd("C:\\Users\\it24100284\\Desktop\\IT24100284")
> getwd()
[1] "C:/Users/it24100284/Desktop/IT24100284"
> #1.
> #i
> #Here, random variable X has binomial distribution with n = 50 and p = 0.85
> #ii
> 1 - pbinom(47, 50, 0.85, lower.tail = FALSE)
[1] 0.9858115
> #2
> #i
> #The number of customer calls received in a call center per hour
> #ii
> #Here, random variable x has poisson distribution with lambda = 12
> #iii
> dpois(15, 12)
[1] 0.07239112
> |
```