Sri Lanka Institute of Information Technology

Lab Submission
Lab Sheet 07

IT24101387

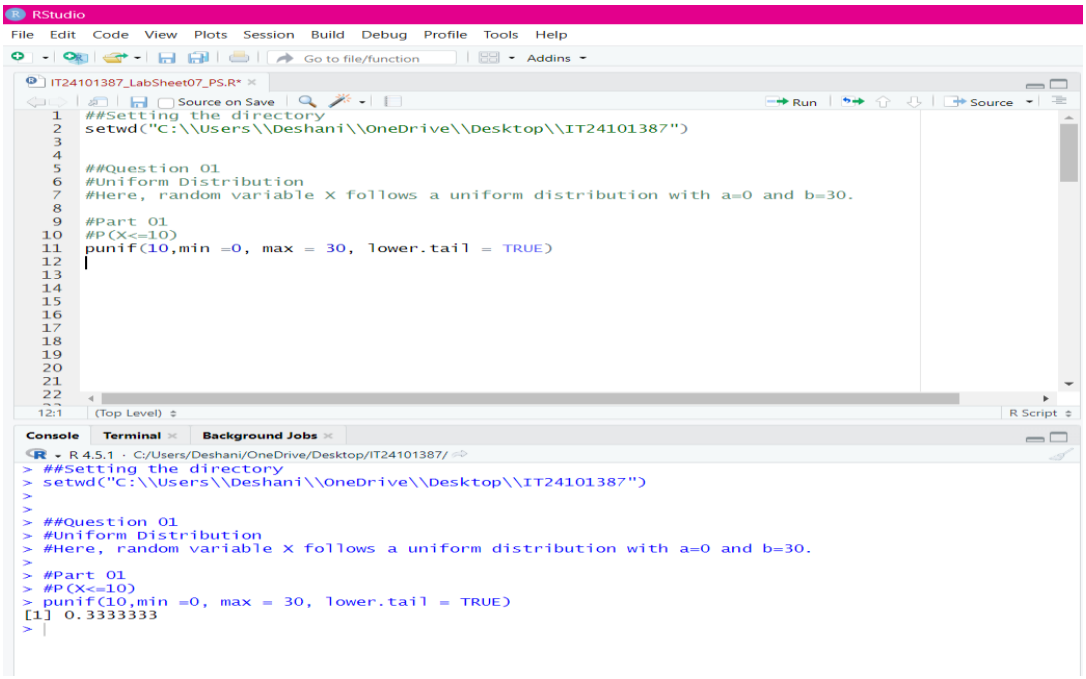
Deshani B.A.M

Probability and Statistics | IT2120

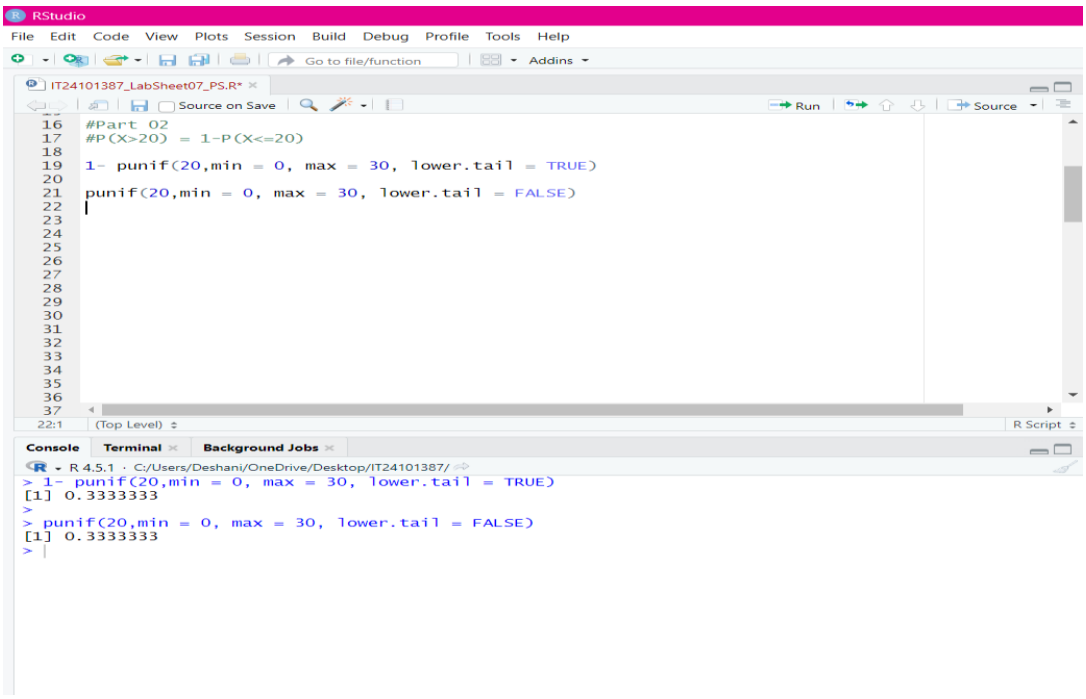
B.Sc. (Hons) in Information Technology

Question - 01

Part – 01

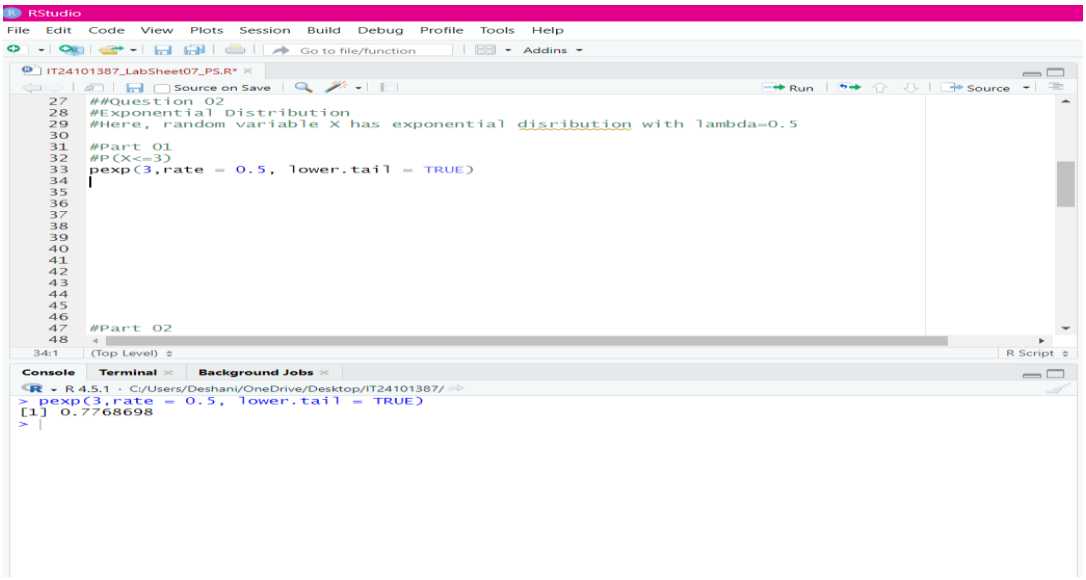


Part – 02

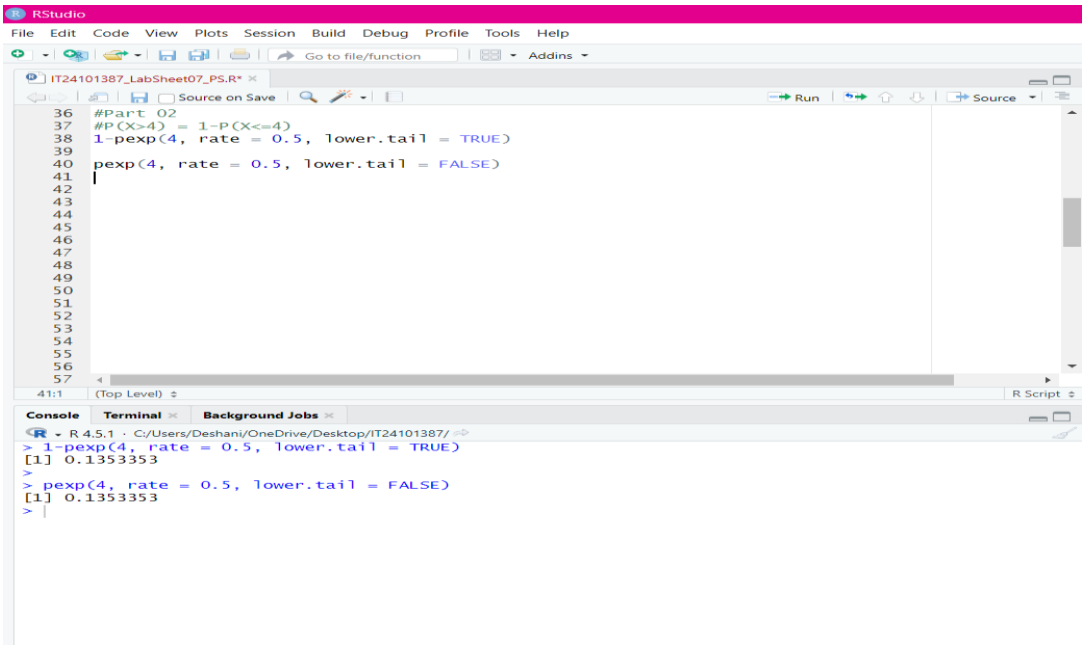


Question – 02

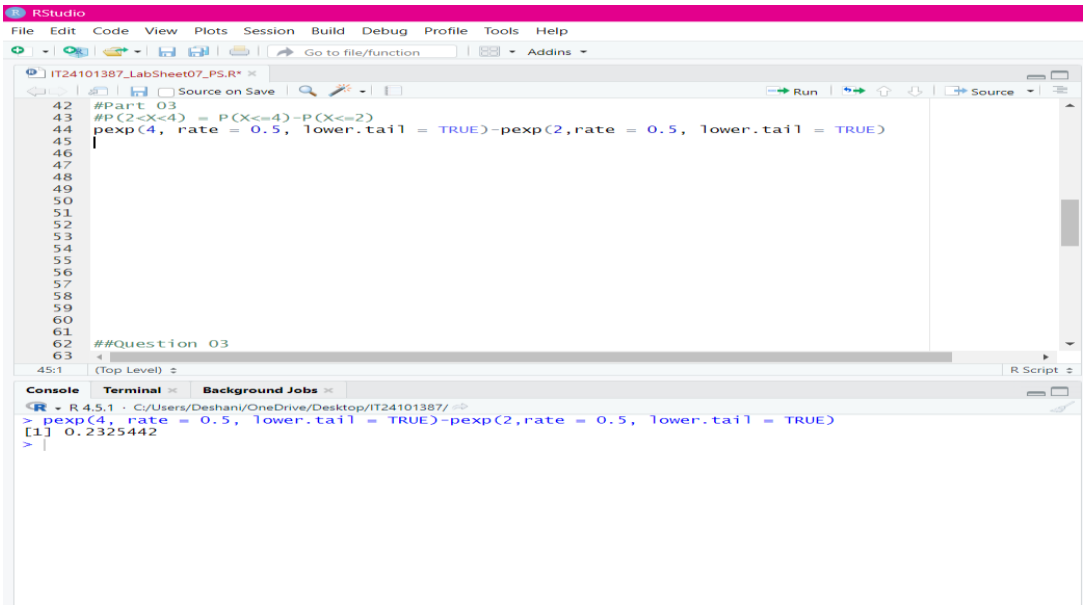
Part – 01



Part – 02

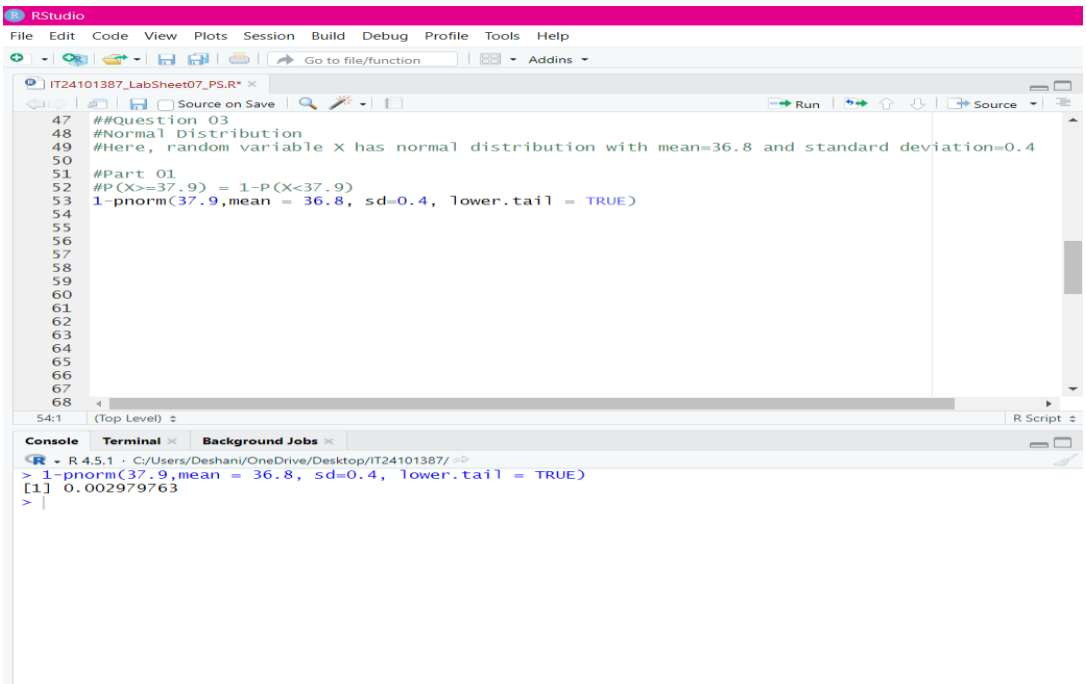


Part – 03

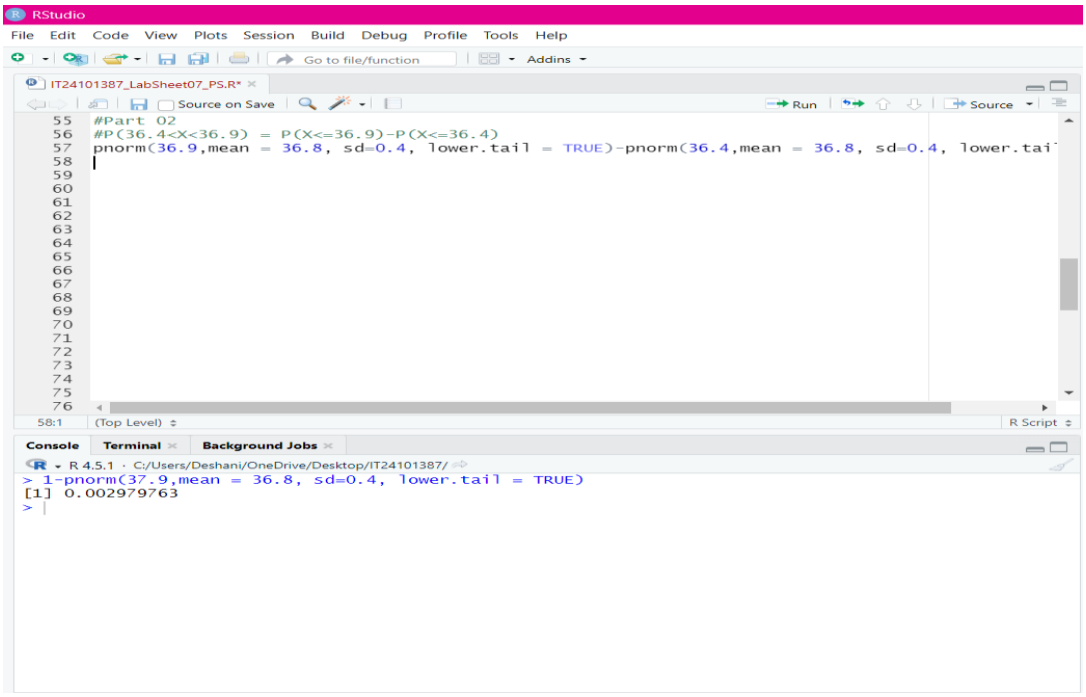


Question – 03

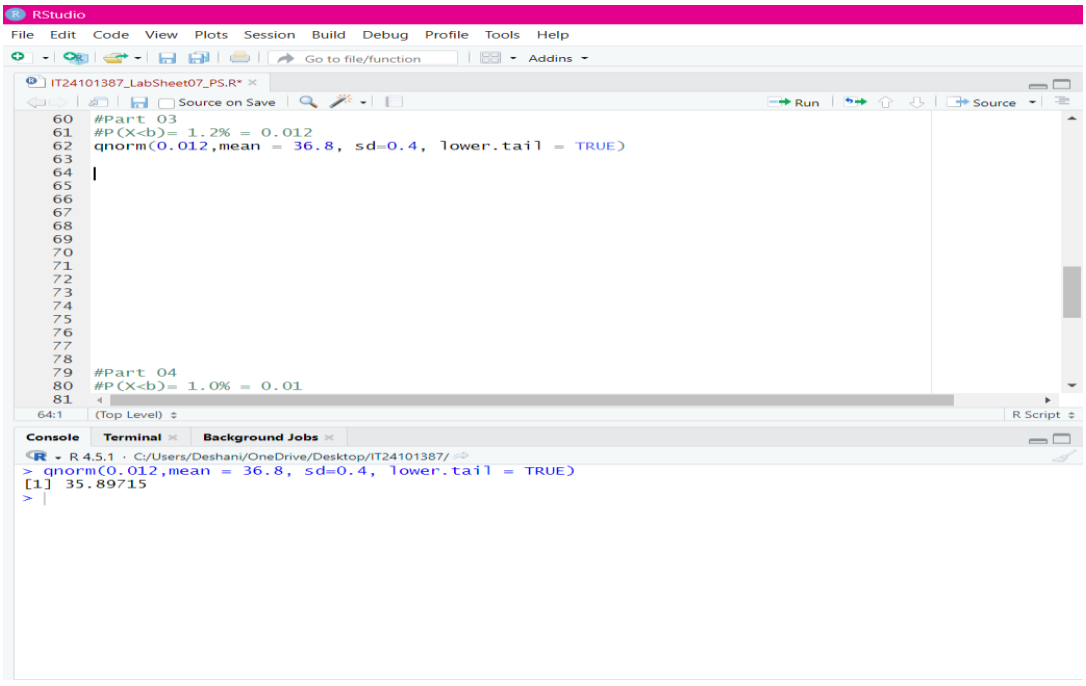
Part – 01



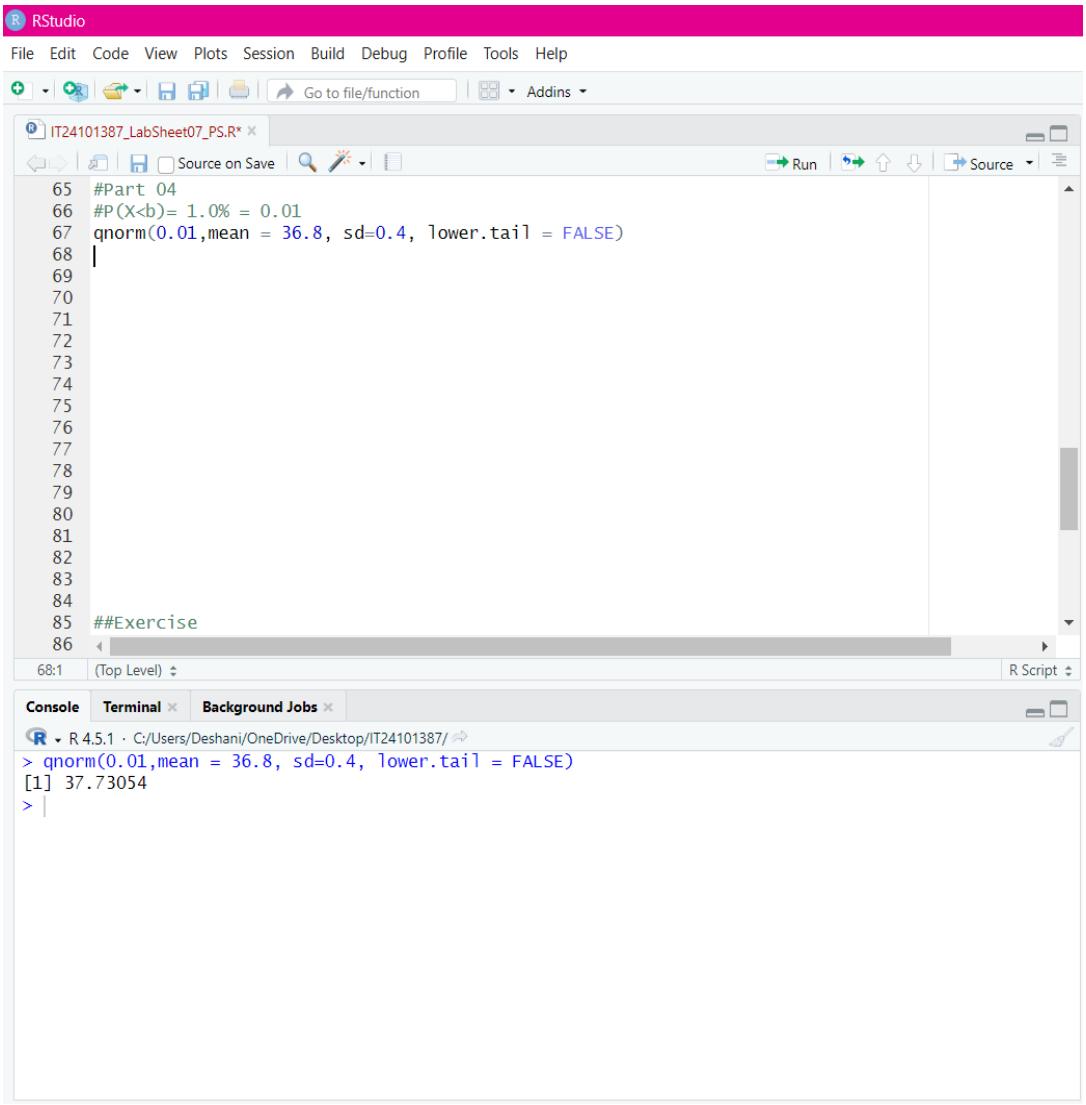
Part – 02



Part – 03

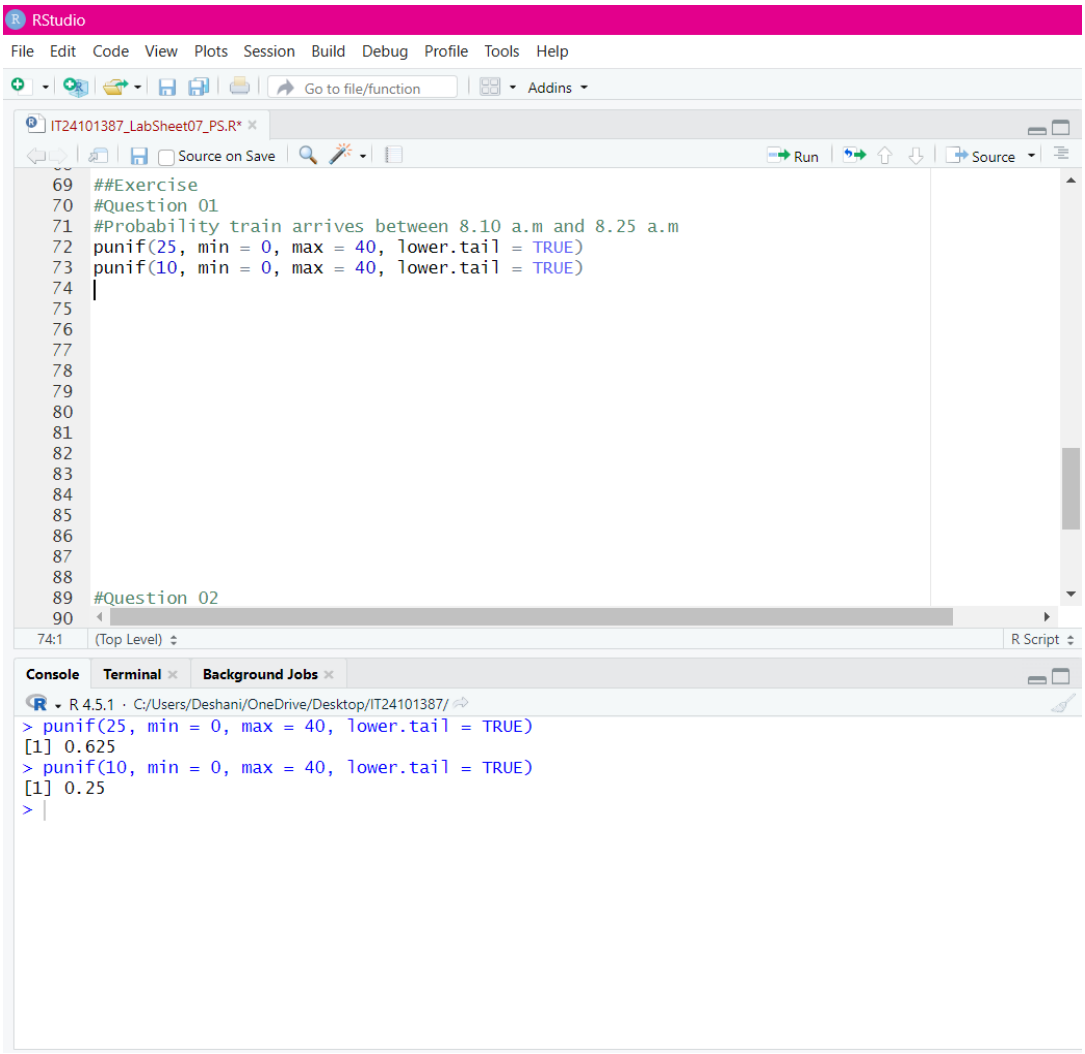


Part – 04

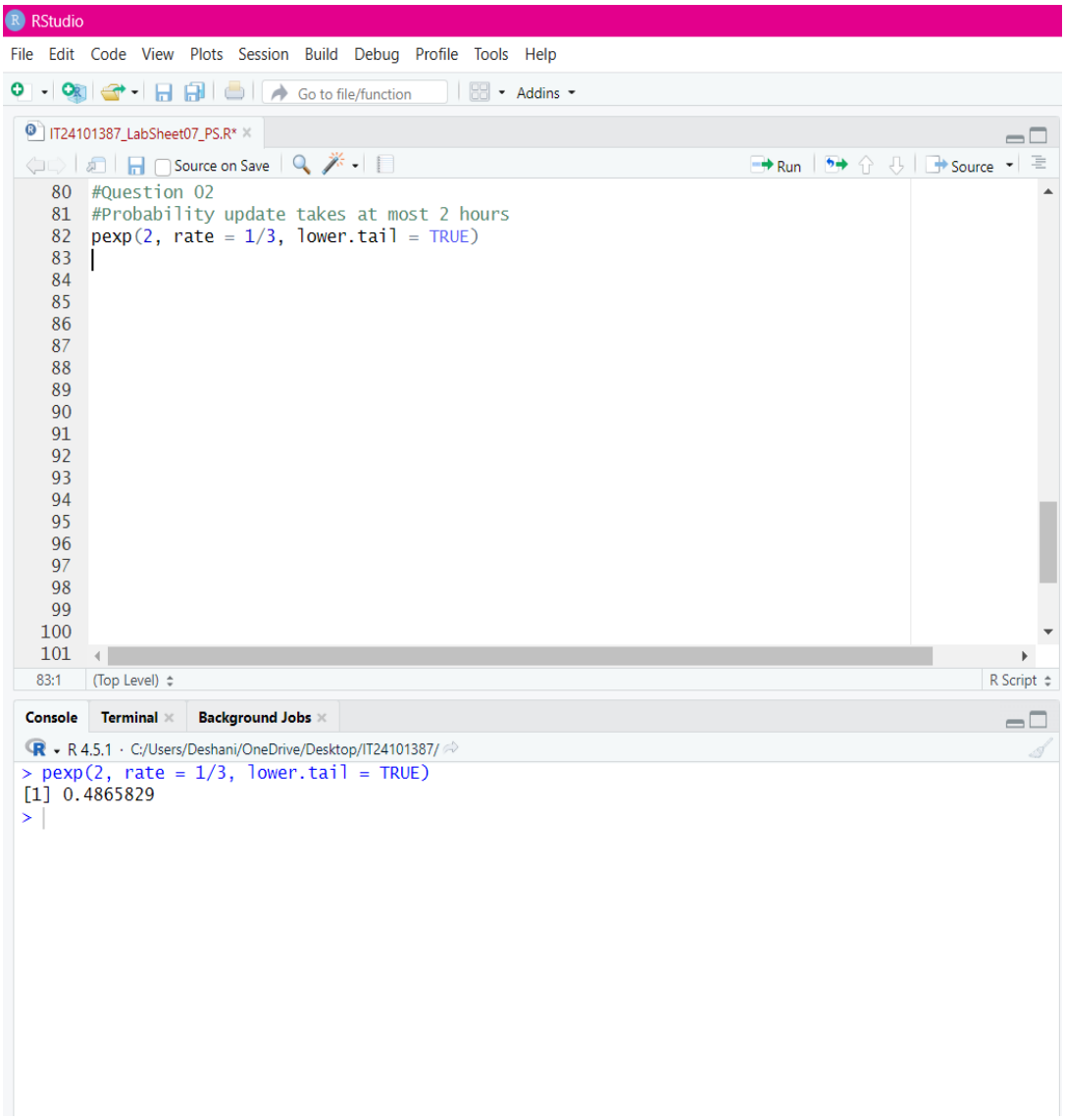

RStudio
File Edit Code View Plots Session Build Debug Profile Tools Help
Go to file/function
Addins
IT24101387_LabSheet07_PS.R*
Source on Save
Run
Source
65 #Part 04
66 #P(X<b)= 1.0% = 0.01
67 qnorm(0.01,mean = 36.8, sd=0.4, lower.tail = FALSE)
68
85 ##Exercise
86
68:1 (Top Level)
R Script
Console
Terminal
Background Jobs
R 4.5.1 · C:/Users/Deshani/OneDrive/Desktop/IT24101387/
> qnorm(0.01,mean = 36.8, sd=0.4, lower.tail = FALSE)
[1] 37.73054
>

Exercise

Question – 01



Question – 02


RStudio
File Edit Code View Plots Session Build Debug Profile Tools Help
Go to file/function
Addins
IT24101387_LabSheet07_PS.R*
Source on Save
Run
Source
80 #Question 02
81 #Probability update takes at most 2 hours
82 pexp(2, rate = 1/3, lower.tail = TRUE)
83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101
83:1
(Top Level)
R Script
Console
Terminal
Background Jobs
R 4.5.1 · C:/Users/Deshani/OneDrive/Desktop/IT24101387/
> pexp(2, rate = 1/3, lower.tail = TRUE)
[1] 0.4865829
>

Question – 03

Part 01 And Part 02