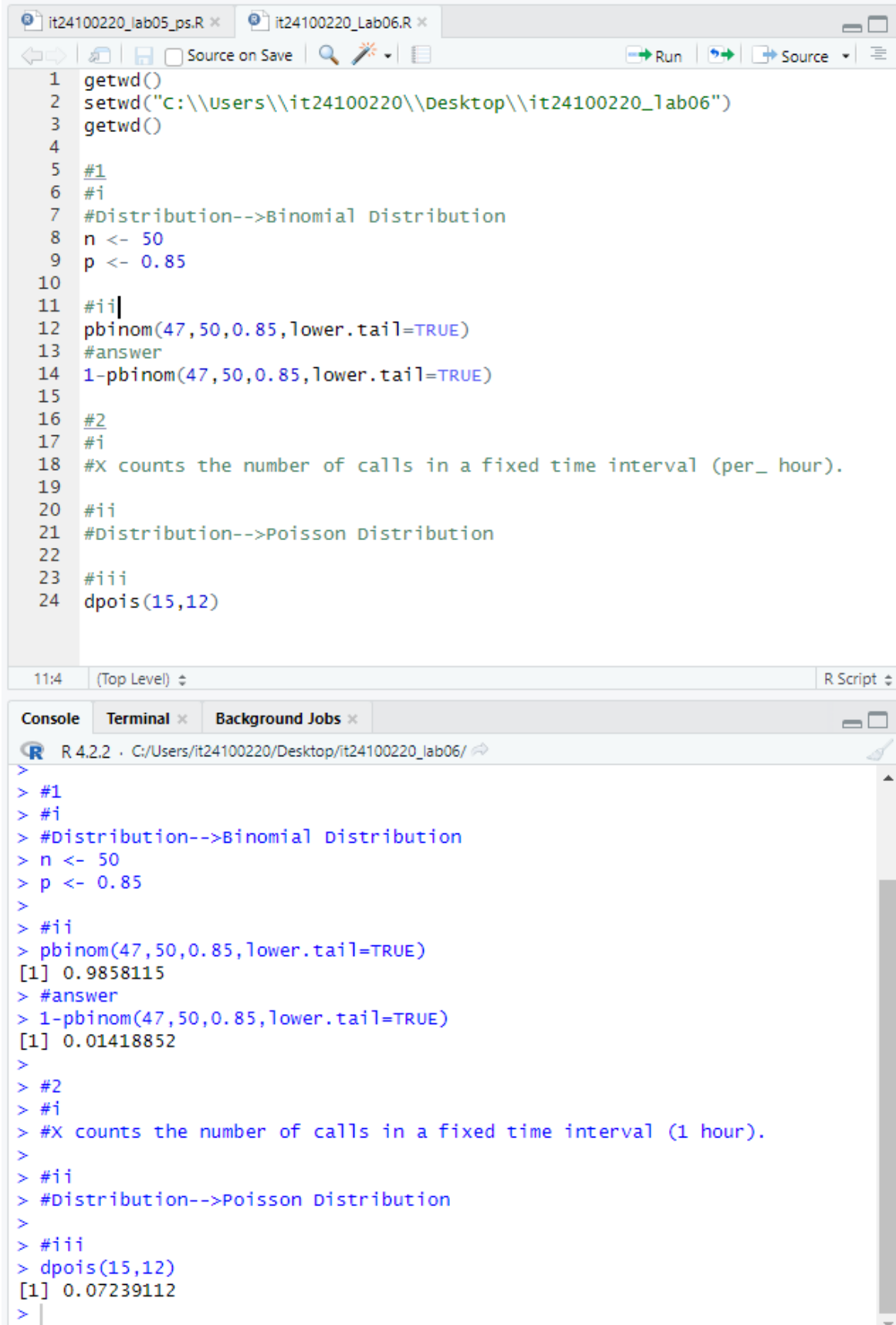


It24100220

N.Sanujan



The image shows a screenshot of the R Studio interface. The top pane is the script editor, displaying an R script with 24 lines of code. The script sets the working directory, defines variables for a binomial distribution, and calculates two probabilities. The bottom pane is the console, showing the execution of the script line by line, with the results of the probability calculations displayed.

```
1 getwd()
2 setwd("C:\\Users\\it24100220\\Desktop\\it24100220_lab06")
3 getwd()
4
5 #1
6 #i
7 #Distribution-->Binomial Distribution
8 n <- 50
9 p <- 0.85
10
11 #ii
12 pbinom(47,50,0.85,lower.tail=TRUE)
13 #answer
14 1-pbinom(47,50,0.85,lower.tail=TRUE)
15
16 #2
17 #i
18 #X counts the number of calls in a fixed time interval (per_ hour).
19
20 #ii
21 #Distribution-->Poisson Distribution
22
23 #iii
24 dpois(15,12)
```

11:4 (Top Level) R Script

Console Terminal Background Jobs

R 4.2.2 C:/Users/it24100220/Desktop/it24100220_lab06/

```
>
> #1
> #i
> #Distribution-->Binomial Distribution
> n <- 50
> p <- 0.85
>
> #ii
> pbinom(47,50,0.85,lower.tail=TRUE)
[1] 0.9858115
> #answer
> 1-pbinom(47,50,0.85,lower.tail=TRUE)
[1] 0.01418852
>
> #2
> #i
> #X counts the number of calls in a fixed time interval (1 hour).
>
> #ii
> #Distribution-->Poisson Distribution
>
> #iii
> dpois(15,12)
[1] 0.07239112
>
```