



The screenshot displays the R Studio environment. The top pane shows a script file named 'IT24101239\_Lab\_6.R'. The script contains three sections of code, each preceded by a comment line. The first section sets the working directory and calculates the probability of 47 or more successes in 50 trials with a success probability of 0.85. The second section calculates the probability of 15 or more events occurring in a fixed interval when the average rate is 12. The third section is partially visible. The bottom pane shows the console output, which matches the executed commands in the script.

```
1 setwd("C:\\Users\\USER\\Desktop\\IT24101239")
2
3 #1
4 #Binomial Distribution
5
6 #2
7 1-pbinom(47,50,0.85,lower.tail =FALSE)
8
9
10 #1
11 #number of customer calls per hour
12
13 #2
14 #poisson Distribution
15
16 #3
17 dpois(15,12)
18 |
19
```

18:1 (Top Level) ⌵

**Console** **Terminal** × **Background Jobs** ×

R 4.5.1 · C:/Users/USER/Desktop/IT24101239/ ↗

```
> setwd("C:\\Users\\USER\\Desktop\\IT24101239")
> #2
> 1-pbinom(47,50,0.85,lower.tail =FALSE)
[1] 0.9858115
> #3
> dpois(15,12)
[1] 0.07239112
```