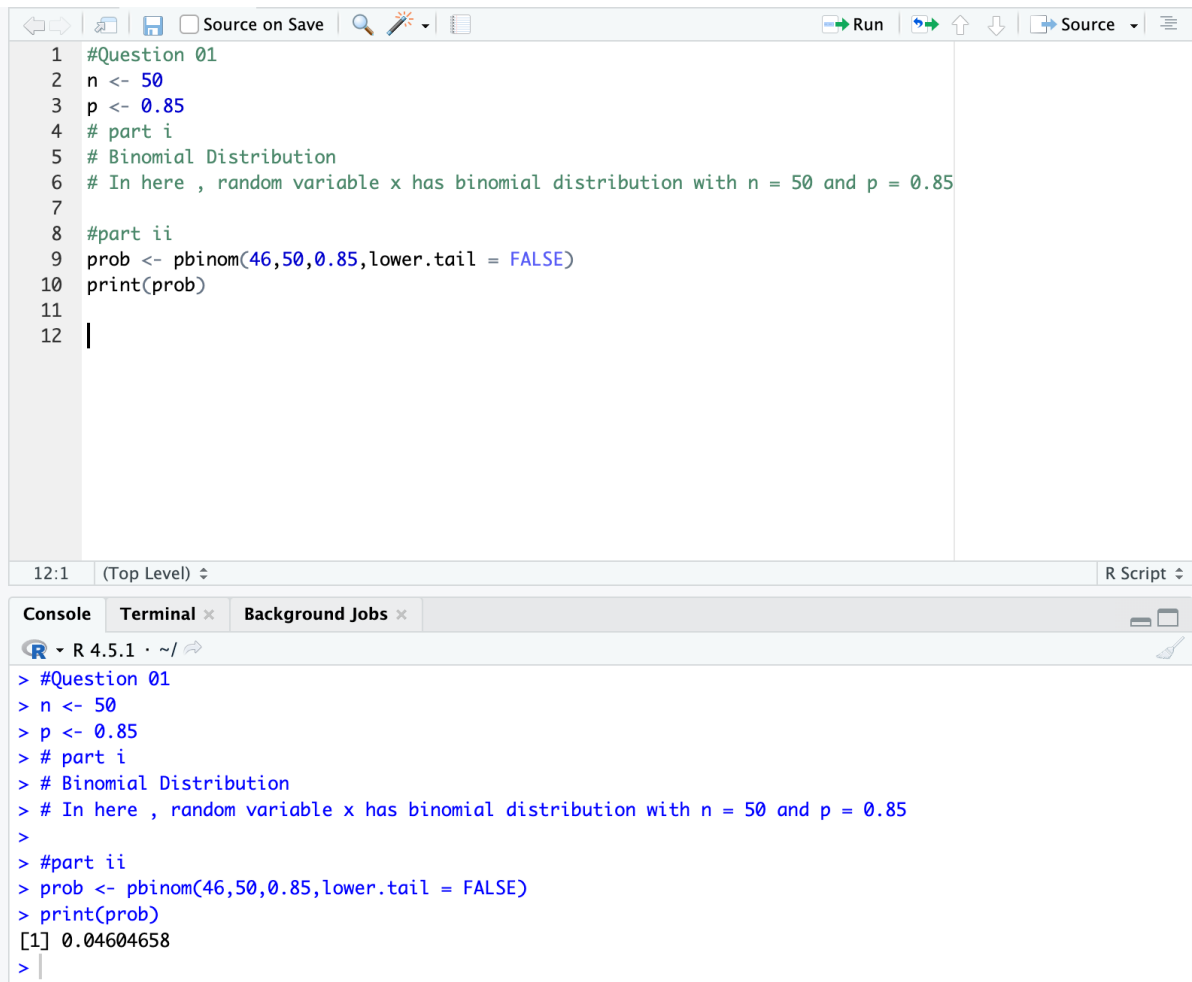


PS Lab 06- IT24102383



The image shows a screenshot of the RStudio environment. The top pane displays an R script with the following code:

```
1 #Question 01
2 n <- 50
3 p <- 0.85
4 # part i
5 # Binomial Distribution
6 # In here , random variable x has binomial distribution with n = 50 and p = 0.85
7
8 #part ii
9 prob <- pbinom(46,50,0.85,lower.tail = FALSE)
10 print(prob)
11
12 |
```

The bottom pane shows the console output, indicating that the script was executed successfully in R 4.5.1. The output of the `print(prob)` statement is `[1] 0.04604658`.

```
> #Question 01
> n <- 50
> p <- 0.85
> # part i
> # Binomial Distribution
> # In here , random variable x has binomial distribution with n = 50 and p = 0.85
>
> #part ii
> prob <- pbinom(46,50,0.85,lower.tail = FALSE)
> print(prob)
[1] 0.04604658
>
```

```
Source on Save Run Source
3 p <- 0.85
4 # part i
5 # Binomial Distribution
6 # In here , random variable x has binomial distribution with n = 50 and p = 0.85
7
8 #part ii
9 prob <- pbinom(46,50,0.85,lower.tail = FALSE)
10 print(prob)
11
12 #Question 02
13 #Part i
14 # Number of customer calls per hour on a given day that receives by a call center
15
16 #Part ii
17 #Poisson Distribution
18 # here, random variable x has poisson distribution with lambda = 12
19 lambda <- 12
20 k <- 15
21 prob1 <- dpois (k,lambda)
22 print(prob1)
22:13 (Top Level) R Script
```

```
Console Terminal Background Jobs
R - R 4.5.1 - ~/
> # In here , random variable x has binomial distribution with n = 50 and p = 0.85
>
> #part ii
> prob <- pbinom(46,50,0.85,lower.tail = FALSE)
> print(prob)
[1] 0.04604658
> #Question 02
> #Part i
> # Number of customer calls per hour on a given day that receives by a call center
>
> #Part ii
> #Poisson Distribution
> # here, random variable x has poisson distribution with lambda = 12
> lambda <- 12
> k <- 15
> prob1 <- dpois (k,lambda)
> print(prob1)
[1] 0.07239112
>
```

