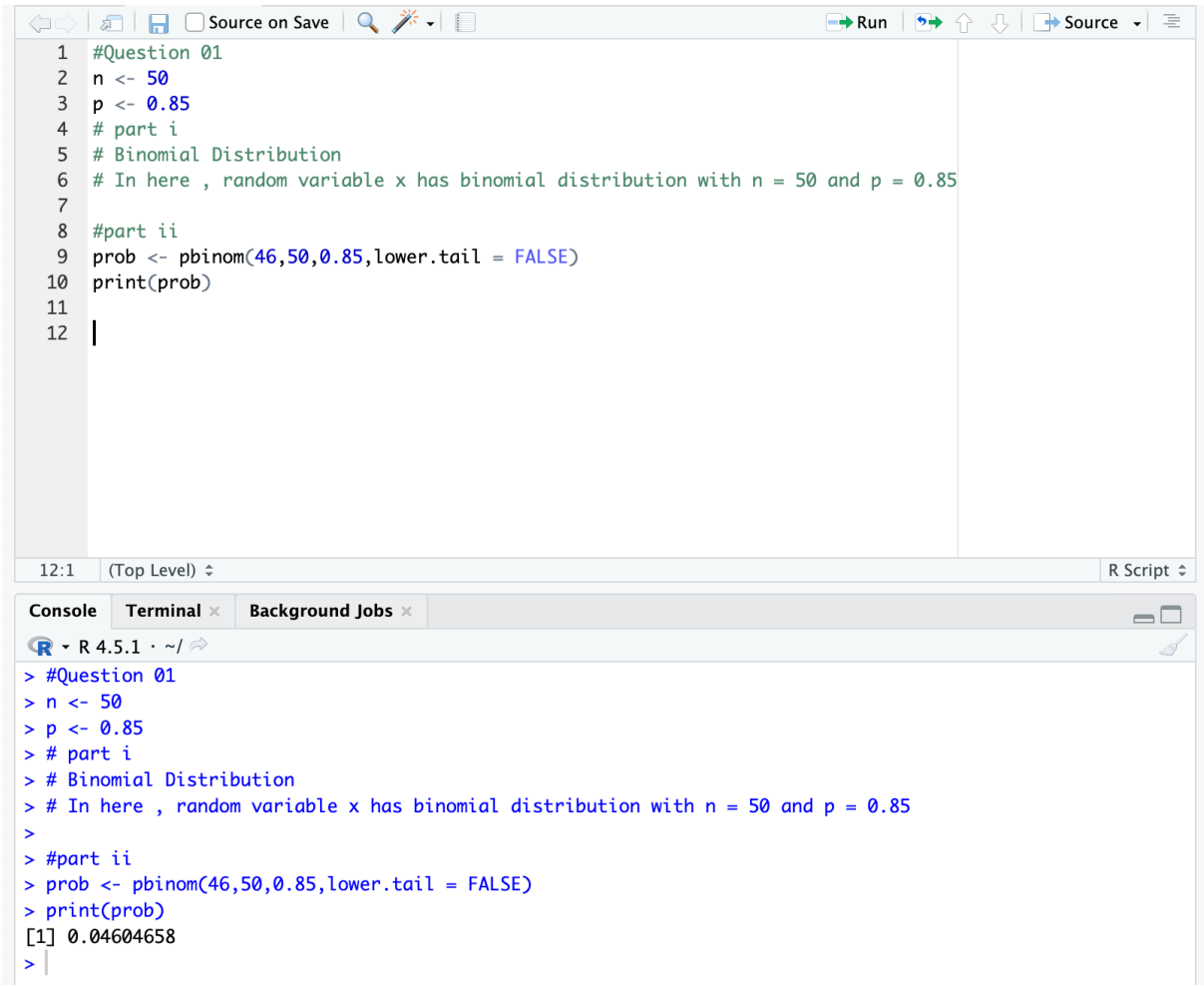
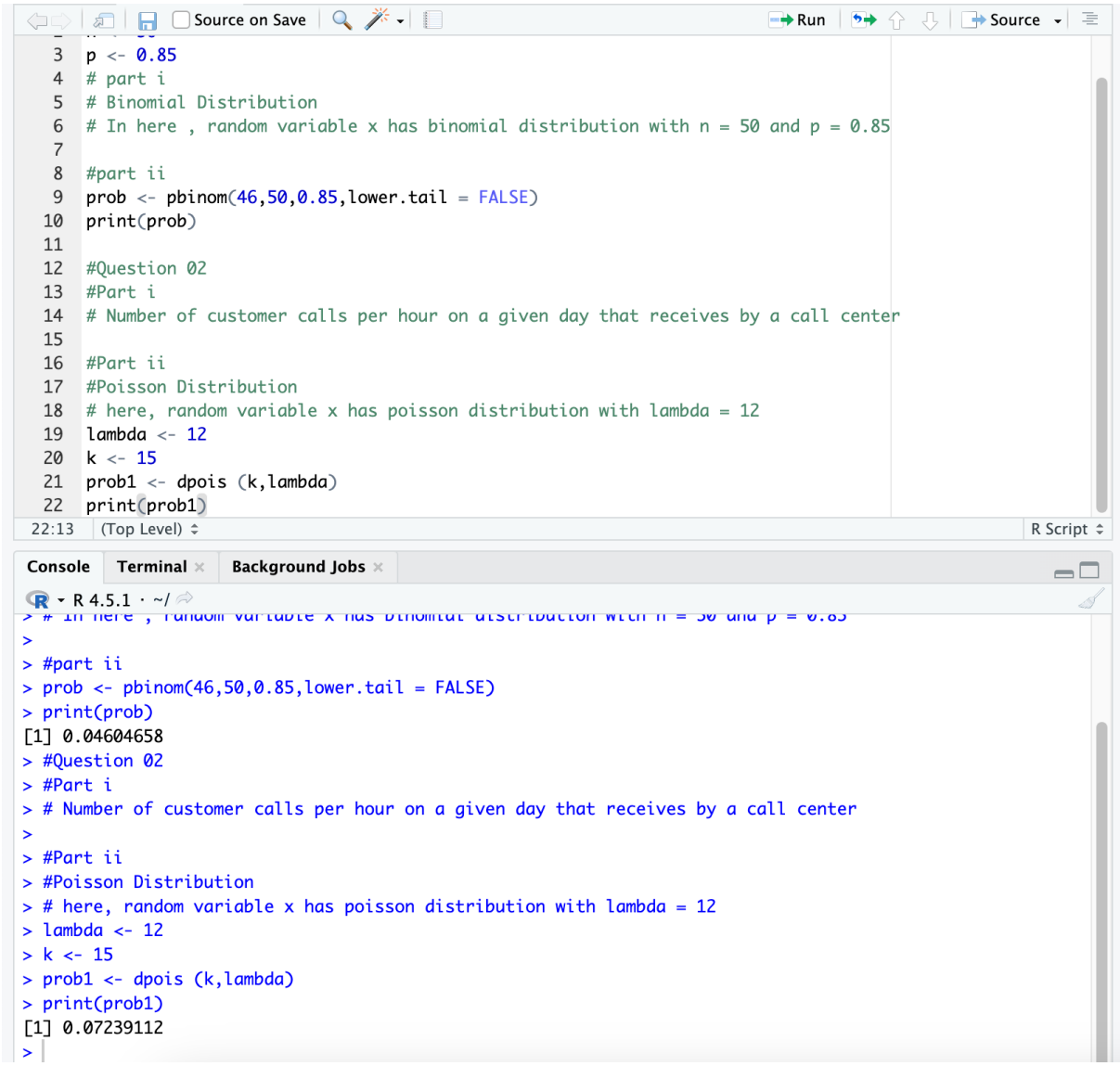
PS Lab 06- IT24102383



```r
#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)
```

```
> #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
>
```



```
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)
```

```
> # 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
>
```