IT24102844.R

Source on Save

```r
# EXERCISE

# 1)

# i.
# Binomial distribution n = 50, p = 0.85

#ii.
# P(X >= 47)
1 - pbinom(46, 50, 0.85, lower.tail = TRUE)
# or
pbinom(46, 50, 0.85, lower.tail = FALSE)


# 2)

# i.
# X = number of customer calls received in one hour

# ii.
# Poisson distribution ,lambda = 12

# iii.
# P(X = 15)
dpois(15, lambda = 12)
```

26:1 (Top Level)

Console Terminal Background Jobs

R 4.5.1 · ~/

```
Type 'demo()' for some demos, 'help()' for on-line help, or
'help.start()' for an HTML browser interface to help.
Type 'q()' to quit R.

> #ii.
> # P(X >= 47)
> 1 - pbinom(46, 50, 0.85, lower.tail = TRUE)
[1] 0.04604658
> # or
> pbinom(46, 50, 0.85, lower.tail = FALSE)
[1] 0.04604658
> # iii.
> # P(X = 15)
> dpois(15, lambda = 12)
[1] 0.07239112
>
```