

Faculty of Computing Year 2 Semester 1 (2025)

IT2120 - Probability and Statistics Lab Sheet 06

```
1 getwd()
2 setwd("C:\\Users\\ASUS TUF\\Desktop\\IT24102614")
3 #X ~ Binomial(n = 50, p = 0.85)
4 p_atleast47 <- pbinom(46, size=50, prob=0.85, lower.tail=FALSE)
5 p_atleast47
6
7 # Exercise 2
8 #i) X = number of calls received in one hour
9
10 # ii.
11 # X ~ Poisson(lambda = 12)
12
13 # iii
14 p_exact15 <- dpois(15, lambda=12)
15 p_exact15
```

```
15:10 (Top Level)
Console Terminal Background Jobs
R 4.5.1 · C:/Users/ASUS TUF/Desktop/IT24102614/

> getwd()
[1] "C:/Users/ASUS TUF/Documents"
> setwd("C:\\Users\\ASUS TUF\\Desktop\\IT24102614")
>
> #X ~ Binomial(n = 50, p = 0.85)
> p_atleast47 <- pbinom(46, size=50, prob=0.85, lower.tail=FALSE)
> p_atleast47
[1] 0.04604658
>
> # Exercise 2
> #i) X = number of calls received in one hour
>
> # ii.
> # X ~ Poisson(lambda = 12)
>
> # iii
> p_exact15 <- dpois(15, lambda=12)
> p_exact15
[1] 0.07239112
> |
```