

Lab 06

```
1 setwd("C:\\Users\\it24101916\\Desktop\\Lab 6")
2
3 #02.
4 #ii)
5 dbinom(40,44,0.92)
6
7 #iii)
8 pbinom(35,44,0.92,lower.tail = TRUE)
9
10 #iv)
11 1- pbinom(37,44,0.92,lower.tail = TRUE)
12 pbinom(37,44,0.92,lower.tail = FALSE)
13
14 #v)
15 pbinom(42,44,0.92,lower.tail = TRUE)-pbinom(39,44,0.92,lower.tail = TRUE)
16
17
18 #02.
19 #i)
20 dpois(6,5)
21
22 #ii)
23 ppois(6,5,lower.tail = FALSE)
24
25
26 #Exercise
27 #01
28
29 #i)
30 #Binomial Distribution
31 #Here, Random variable X has Binomial Distribution with n = 50 and p = 0.85
32
33 #ii)
34 pbinom(47,50,0.85,lower.tail = FALSE)
35
36
37
38 #02
39 #i)
40 #Customer calls per hour
41
42 #ii)
43 #Poisson Distribution
44 #Here, Random variable X has Poisson Distribution with lamda = 12
45
46 #iii)
47 dpois(15,12)
48 |
```

Console	Terminal x	Background Jobs x
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>
>
>
> setwd("C:\\Users\\it24101916\\Desktop\\Lab 6")
> #02.
> #ii)
> dbinom(40,44,0.92)
[1] -Inf
> #iii)
> pbinom(35,44,0.92,lower.tail = TRUE)
[1] 0.007252274
> #iv)
> 1- pbinom(37,44,0.92,lower.tail = TRUE)
[1] 0.9412233
> pbinom(37,44,0.92,lower.tail = FALSE)
[1] 0.9412233
> #v)
> pbinom(42,44,0.92,lower.tail = TRUE)-pbinom(39,44,0.92,lower.tail = TRUE)
[1] 0.6025556
> #02.
> #i)
> dpois(6,5)
[1] 0.1462228
> #ii)
> ppois(6,5,lower.tail = FALSE)
[1] 0.2378165
> #ii)
> pbinom(47,50,0.85,lower.tail = FALSE)
[1] 0.01418852
> #iii)
> dpois(15,12)
[1] 0.07239112
>
```