

01)

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R ▾ R 4.5.1 · C:/Users/lahiruni kavindya/Desktop/IT24102392 lab 6/ ↗
> setwd("C:\\Users\\lahiruni kavindya\\Desktop\\IT24102392 lab 6")
> #01
> cat("i. X follows a Binomial distribution with n=50,p=0.85\n")
i. X follows a Binomial distribution with n=50,p=0.85
>
> prob_geq_47 <- pbinom(46,50,0.85,lower.tail = FALSE)
> cat("ii.P(X ≥ 47) = " , round(prob_geq_47, 4), "\n\n")
ii.P(X ≥ 47) = 0.046
>
```

02)

```
> cat("X=Number of customer calls received per hour\n")
X=Number of customer calls received per hour
> cat("X follows a poisson distribution with lambda=12\n")
X follows a poisson distribution with lambda=12
>
>
> prob_15_calls<- dpois(15,12)
> cat("p(X= 15) =", round(prob_15_calls,4), "/n")
p(X= 15) = 0.0724 /n
> |
```