```
LAB 06
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01)
 > setwd("C:\\Users\\Chamath\\OneDrive\\Desktop\\IT24103512")
 > 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)</pre>
 > cat("ii.P(X \ge 47) =", round(prob_geq_47, 4), "\n\n")
 ii.P(X \ge 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)</pre>
> cat("p(X= 15) =", round(prob_15_calls,4), "/n")
p(X=15) = 0.0724 /n
```