

```

type q() to quit R.

> setwd("C:\\Users\\IT24101737\\Desktop\\IT24101737")
> #part 2
> dbinom(40,44,0.92)
[1] 0.1979776
> #part 3
> pbinom(35,44,0.92,lower.tail = TRUE)
[1] 0.007252274
> #part 4
> 1-pbinom(37,44,0.92,lower.tail = TRUE)
[1] 0.9412233
> #part 5
> pbinom(42,44,0.92,lower.tail = TRUE)-pbinom(39,44,0.92,lower.tail = TRUE)
[1] 0.6025556

> #part 5
> pbinom(42,44,0.92,lower.tail = TRUE)-pbinom(39,44,0.92,lower.tail = TRUE)
[1] 0.6025556
> #part 3
> dpois(6,5)
[1] 0.1462228
> #part 4
> ppois(6,5,lower.tail = FALSE)
[1] 0.2378165
> n <- 50
> p <- 0.85
> #2
> prob_atleast_47 <- 1 - pbinom(46, size = n, prob = p)
> cat("P(X >= 47) =", prob_atleast_47, "\n")

P(X >= 47) = 0.04604658
> #3
> lambda <- 12
> prob_15 <- dpois(15, lambda)
> cat("P(X = 15) =", prob_15, "\n")
P(X = 15) = 0.07239112
>
> |

```