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▼ ▼ | □
                                                       1 setwd("C:\\Users\\Tharusha\\Desktop\\PS_Lab_06")
  2
  3 #Question 01
 4 #i
  5
  6 #Its a Binomial distribution
 7
 8 #ii
 9 n <- 50;
 10 p <- 0.85;
 11
 12 #( P(X \ge 47) = 1 - P(X \le 46))
 prob_at_least_47 <- sum(dbinom(47:50, size = n, prob = p))</pre>
 14 print(paste("P(X >= 47):", prob_at_least_47))
 15
 16 #Question 02
 17
 18 #i
 19 # X represents the number of customer calls received in one hour
 20
 21 #ii
 22 # Poisson distribution; lamda = 12
 23
 24 #iii
 25 lambda <- 12
 26 # P(X = 15)
 27 prob_15_calls <- dpois(15, lambda = lambda)
 28 print(paste("P(X = 15):", prob_15_calls))
29
```

lambda 12 n 50 p 0.85	
p 0.85	
P 2	
1 45 33 0 0722044204455207	
prob_15_calls 0.0723911201466387	
prob_at_least_47	

```
> setwd("C:\\Users\\Tharusha\\Desktop\\PS_Lab_06")
> #Question 01
> #i
> #Its a Binomial distribution
> #ii
> n <- 50;
> p <- 0.85;
> \#(P(X \ge 47) = 1 - P(X \le 46))
> prob_at_least_47 <- sum(dbinom(47:50, size = n, prob = p))</pre>
> print(paste("P(X >= 47):", prob_at_least_47))
[1] "P(X \ge 47): 0.0460465788923018"
> #Question 02
> #i
> # X represents the number of customer calls received in one hour
> #ii
> # Poisson distribution; lamda = 12
> #iii
> lambda <- 12
> # P(X = 15)
> prob_15_calls <- dpois(15, lambda = lambda)</pre>
> print(paste("P(X = 15):", prob_15_calls))
[1] P(X = 15): 0.0723911201466387
```