Sri Lanka Institute of Information Technology

Lab Submission
Lab sheet No 6

IT24101681

Senanayaka S.A.A.T.C

Probability and Statistics - IT2120

Exercise

```
21  setwd("C:\\Users\\it24101681\\Documents\\IT24101681_Lab6")
22  getwd()
23
24  #part1.
25  ## x is a binomial distribution with n = 50 and p = 0.85
26
27  #probability that at least 47 students passed
28  1 - pbinom(46, 50, 0.85)
29
30  #part2
31
32  # x is the number of customers calls per one hour
33
34  # x is poisson distribution with, lamda = 12
35
36  dpois(15, 12)
37
```

```
> getwd()
[1] "C:/Users/it24101681/Documents/IT24101681_Lab6"
> #probability that at least 47 students passed
> 1 - pbinom(46, 50, 0.85)
[1] 0.04604658
> dpois(15, 12)
[1] 0.07239112
```