IT2120 - Probability and Statistics Lab Sheet 06

IT24104087-Rathnamalala R.I.B.T

Exercise

```
01) i)
      1 setwd("C:\\Users\\USER\\Desktop\\IT246108
      3 #Question 1
      5 #Part 1
      6 #Binomial Distribution
      7 n <- 50
      8 p <- 0.85
      > n <- 50
      > p < -0.85
  > setwd("C:\\Users\\USER\\Desktop\\IT246108
      10 #Part 2
       11 \#P(X >= 47) = 1-P(X <= 46)
       12 1 - pbinom(46, n, p, lower.tail = TRUE)
       #pbinom(46, n, p, lower.tail = FALSE)
       > 1 - pbinom(46, n, p, lower.tail = TRUE)
       [1] 0.04604658
```

ii)

```
16 #Question 2
         17
         18 #Part 1
         19 #Number of calls a call center recieves per hour
02) i)
         21 #Part 2
         22 #Poisson Distribution
         23 #Lambda = 12
  ii)
         25 #Part 3
         26 lambda <- 12
         27 dpois(15, lambda)
  iii)
         > lambda <- 12
         > dpois(15, lambda)
         [1] 0.07239112
```

