```
1. i)
      setwd(""C:\\Users\\asus\\Documents\\2 Year 1 Sem\\PS\\Lab Practical\\Lab 6"")
      getwd()
      #Exercise 2
      #Question 1
      #Part 1
      #Binomial Distribution
      #Here, random variable X has binomial distribution with n = 50 and p=0.85
     ii)
9
 10 #Part 2
 11 #What is the probability that at least 47 students passed the test?
 12 dbinom(47,50,0.85)
> #Part 2
> #what is the probability that at least 47 students passed the test?
> dbinom(47,50,0.85)
[1] 0.03185806
> |
```

2. I)

```
4 #Question 2
     5 #Part 1
     5 #What is the random variable (X) for the problem?
     7 #---the number of customer calls received in one hour.
     55 (Top Level) $
    ii)
  18
  19 #Part2
  20 #What is the distribution of X?
  21 #Here, random variable X has poisson distribution with lamda = 12
  22
    iii)
#What is the probability that exactly 15 calls are received in an hour?
dpois(15,12)
> #Part 3
> #what is the probability that exactly 15 calls are received in an hour?
> dpois(15,12)
```

[1] 0.07239112