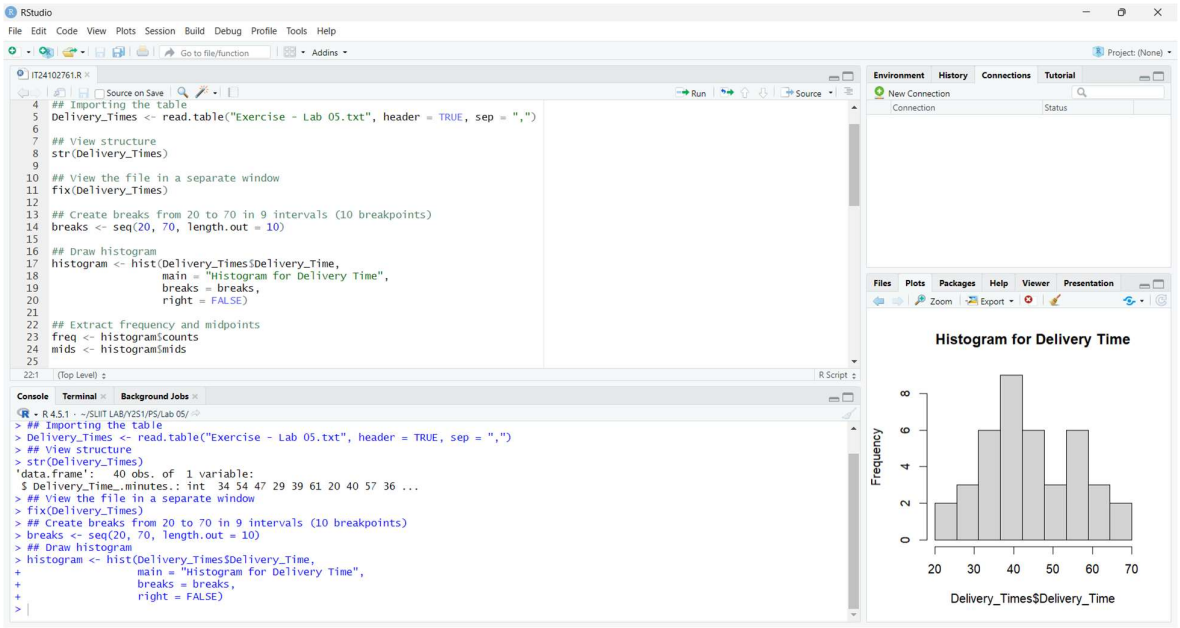
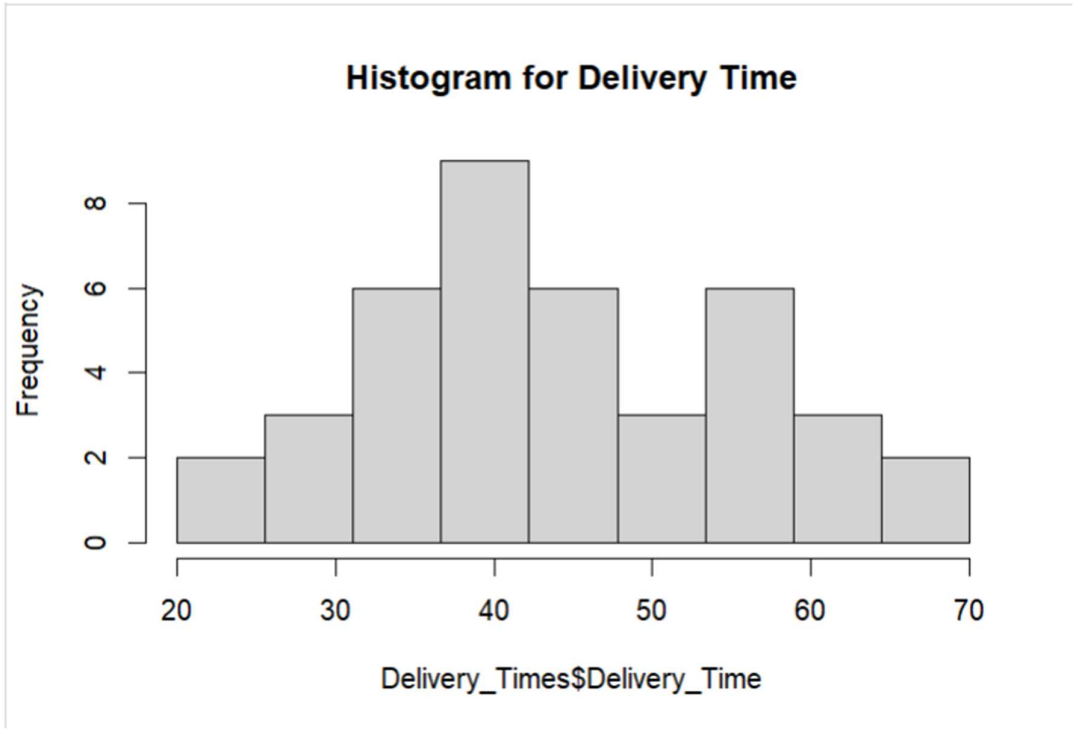



```r
## Draw histogram
histogram <- hist(Delivery_Times$Delivery_Time,
                  main = "Histogram for Delivery Time",
                  breaks = breaks,
                  right = FALSE)
```

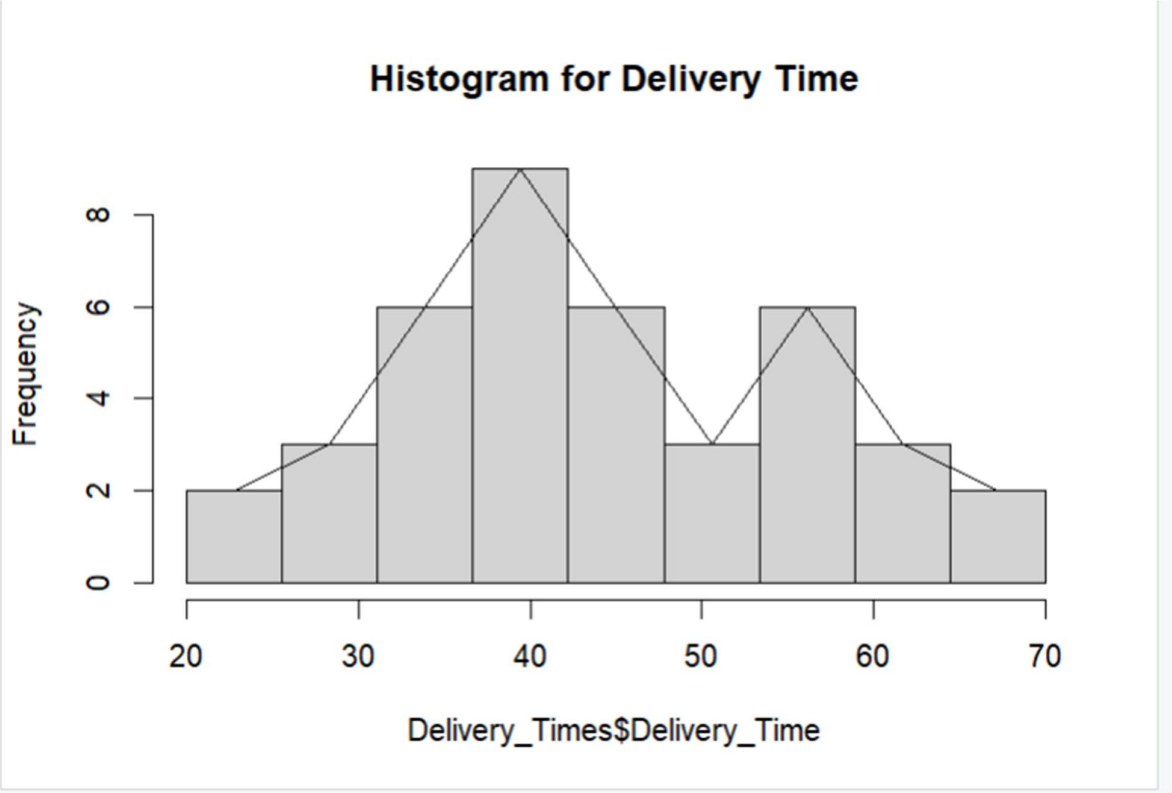


```r
## Extract frequency and midpoints
freq <- histogram$counts
mids <- histogram$mids

## Create class labels
classes <- c()
for (i in 1:(length(breaks) - 1)) {
  classes[i] <- paste0("[", breaks[i], ",", breaks[i + 1], ")")
}

## Display classes and corresponding frequencies
cbind(Classes = classes, Frequency = freq)
```

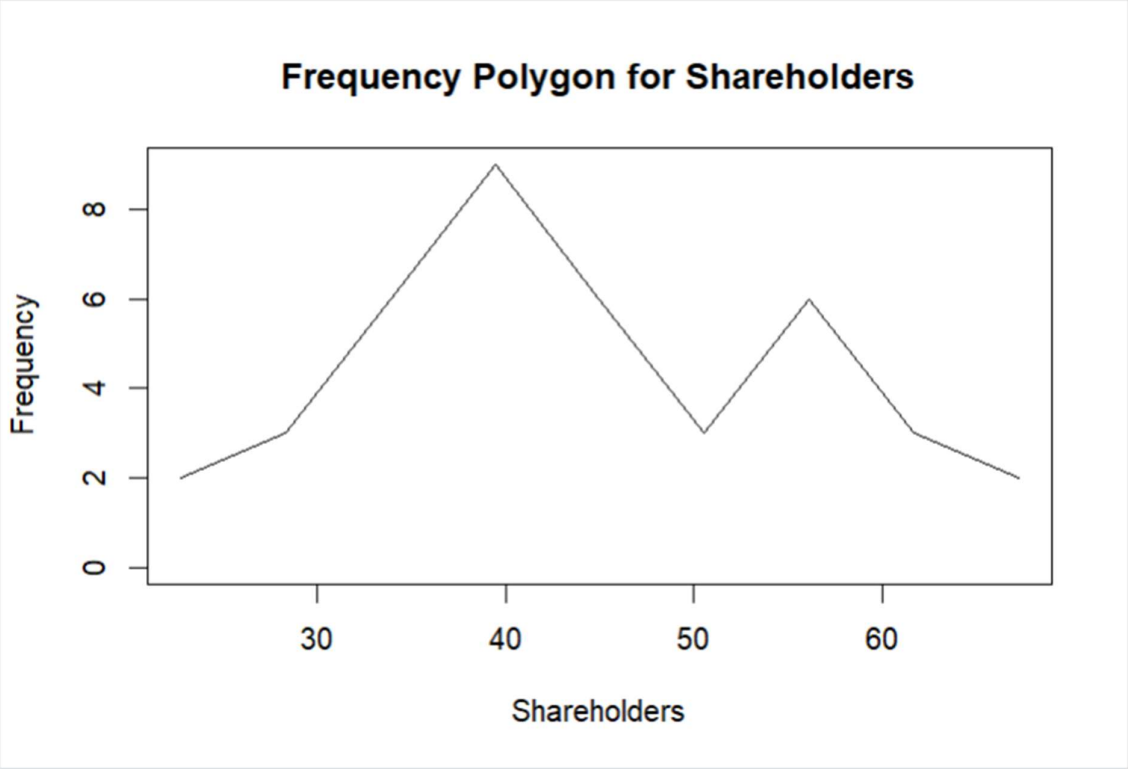
```r
## Extract frequency and midpoints
freq <- histogram$counts
mids <- histogram$mids
## Create class labels
classes <- c()
for (i in 1:(length(breaks) - 1)) {
  classes[i] <- paste0("[", breaks[i], ",", breaks[i + 1], ")")
}
## Display classes and corresponding frequencies
cbind(Classes = classes, Frequency = freq)
```

```
     Classes                                 Frequency
[1,] "[20,25.5555555555556)"                 "2"
[2,] "[25.5555555555556,31.1111111111111)"   "3"
[3,] "[31.1111111111111,36.6666666666667)"   "6"
[4,] "[36.6666666666667,42.2222222222222)"   "9"
[5,] "[42.2222222222222,47.7777777777778)"   "6"
[6,] "[47.7777777777778,53.3333333333333)"   "3"
[7,] "[53.3333333333333,58.8888888888889)"   "6"
[8,] "[58.8888888888889,64.4444444444444)"   "3"
[9,] "[64.4444444444444,70)"                 "2"
```

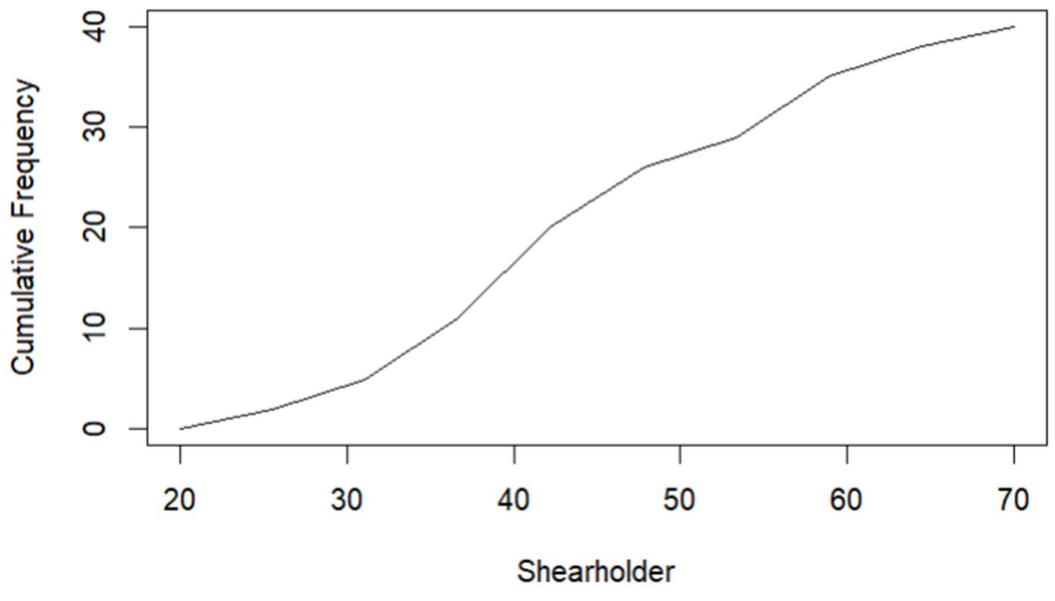
```
## Draw frequency polygon on the same plot
lines(mids, freq)
```



```r
## Draw frequency polygon in a new plot
plot(mids, freq,type = 'l',main = "Frequency Polygon for Shareholders",
     xlab = "Shareholders",ylab = "Frequency",ylim = c(0, max(freq)))
```



```r
#using "cumsum" commad we can get cumulative freq
#It takes a vector and returns a new vector where each element is
#the sum of all previous elements up to that point.
cum.freq<- cumsum(freq)

#creating a null variable
new<-c()

#store cumulative frequancies in order to get the ogive
for(i in 1:length(breaks)){
  if(i == 1){
    new[i]=0
  }else{
    new[i]=cum.freq[i-1]
  }
}

plot(breaks,new,type = 'l',amin = "Cumalative Frequency polygon for sharegolders",
     xlab = "Shearholder",ylab="Cumulative Frequency", ylim  = c(0,max(cum.freq)))
```



```
> cbind(Upper = breaks, CumTreq = new)
          Upper CumTreq
 [1,] 20.00000       0
 [2,] 25.55556       2
 [3,] 31.11111       5
 [4,] 36.66667      11
 [5,] 42.22222      20
 [6,] 47.77778      26
 [7,] 53.33333      29
 [8,] 58.88889      35
 [9,] 64.44444      38
[10,] 70.00000      40
> 
```