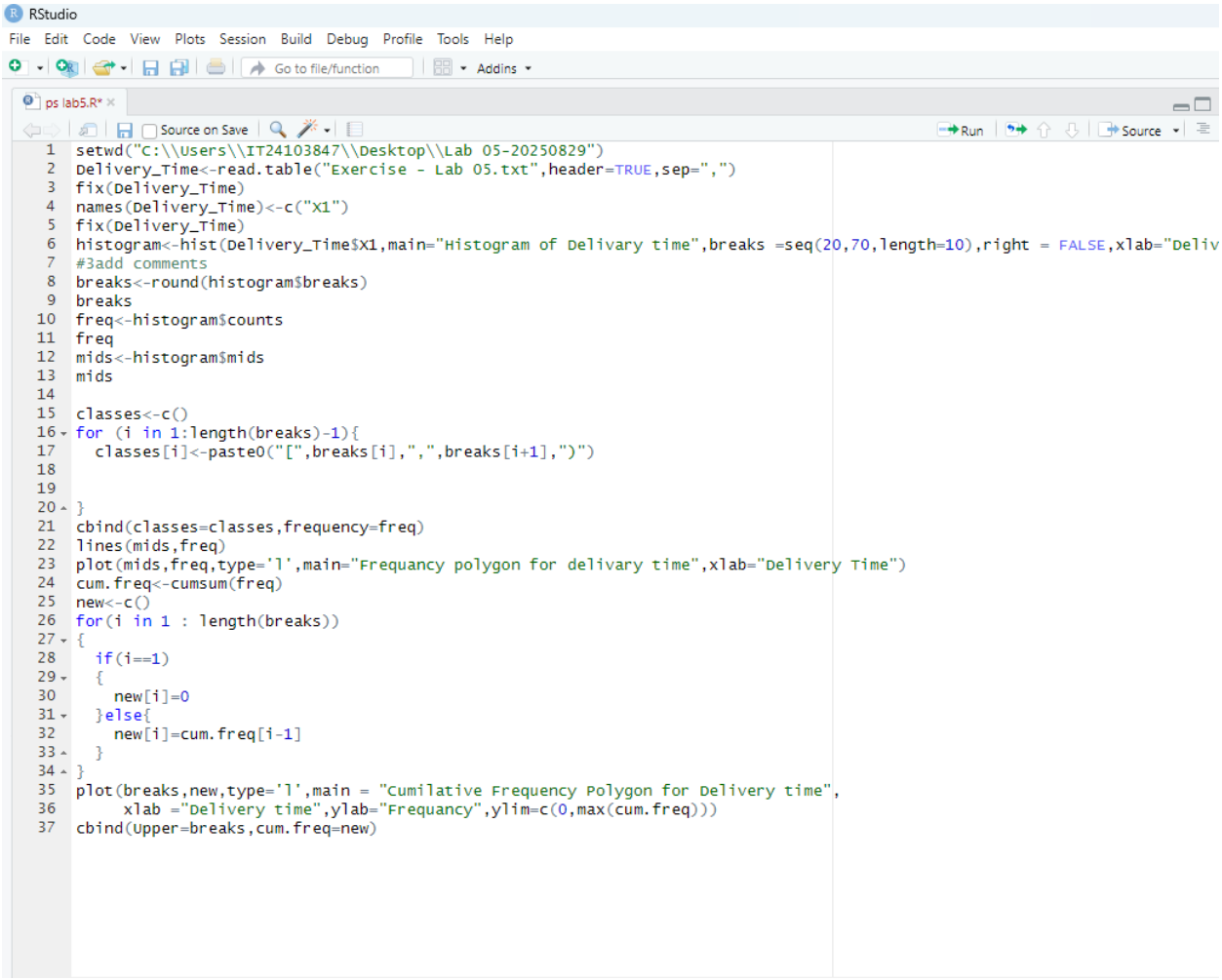
IT24103847

[Jayarathna D.K.G.A]




```r
setwd("C:\\Users\\IT24103847\\Desktop\\Lab 05-20250829")
Delivery_Time<-read.table("Exercise - Lab 05.txt",header=TRUE,sep=",")
fix(Delivery_Time)
names(Delivery_Time)<-c("X1")
fix(Delivery_Time)
histogram<-hist(Delivery_Time$X1,main="Histogram of Delivary time",breaks =seq(20,70,length=10),right = FALSE,xlab="Deliv
#3add comments
breaks<-round(histogram$breaks)
breaks
freq<-histogram$counts
freq
mids<-histogram$mids
mids

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


}
cbind(classes=classes,frequency=freq)
lines(mids,freq)
plot(mids,freq,type='l',main="Frequancy polygon for delivary time",xlab="Delivery Time")
cum.freq<-cumsum(freq)
new<-c()
for(i in 1 : length(breaks))
{
  if(i==1)
  {
    new[i]=0
  }else{
    new[i]=cum.freq[i-1]
  }
}
plot(breaks,new,type='l',main = "Cumilative Frequency Polygon for Delivery time",
     xlab ="Delivery time",ylab="Frequancy",ylim=c(0,max(cum.freq)))
cbind(Upper=breaks,cum.freq=new)
```

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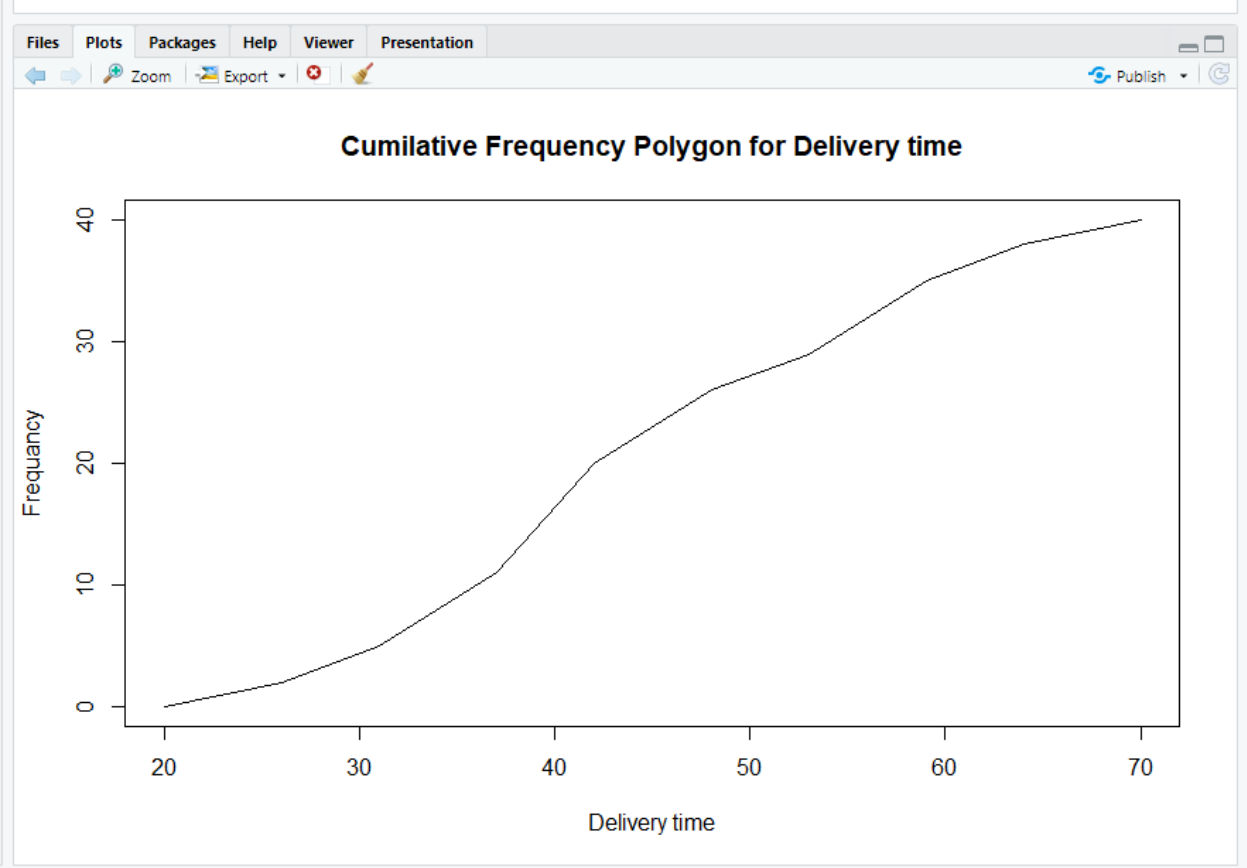
R 4.2.2 · C:/Users/IT24103847/Desktop/Lab 05-20250829/

```
> setwd("C:\\Users\\IT24103847\\Desktop\\Lab 05-20250829")
> Delivery_Time<-read.table("Exercise - Lab 05.txt",header=TRUE,sep=",")
> fix(Delivery_Time)
> names(Delivery_Time)<-c("X1")
> fix(Delivery_Time)
> histogram<-hist(Delivery_Time$X1,main="Histogram of Delivary time",breaks =seq(20,70,length=10),right = FALSE,xlab="Delivar
y time",ylab="Frequency")
> #3add comments
> breaks<-round(histogram$breaks)
> breaks
 [1] 20 26 31 37 42 48 53 59 64 70
> freq<-histogram$counts
> freq
[1] 2 3 6 9 6 3 6 3 2
> mids<-histogram$mids
> mids
[1] 22.77778 28.33333 33.88889 39.44444 45.00000 50.55556 56.11111 61.66667 67.22222
>
> classes<-c()
> for (i in 1:length(breaks)-1){
+   classes[i]<-paste0("[",breaks[i],",",breaks[i+1],")")
+
+
+ }
> cbind(classes=classes,frequency=freq)
      classes   frequency
 [1,] "[20,26)" "2"
 [2,] "[26,31)" "3"
 [3,] "[31,37)" "6"
 [4,] "[37,42)" "9"
 [5,] "[42,48)" "6"
 [6,] "[48,53)" "3"
 [7,] "[53,59)" "6"
 [8,] "[59,64)" "3"
 [9,] "[64,70)" "2"
> lines(mids,freq)
> plot(mids,freq,type='l',main="Frequancy polygon for delivary time",xlab="Delivery Time")
> cum.freq<-cumsum(freq)
> new<-c()
> for(i in 1 : length(breaks))
+ {
+   if(i==1)
+   {
+     new[i]=0
+   }else{
+     new[i]=cum.freq[i-1]
+   }
+ }
> plot(breaks,new,type='l',main = "Cumilative Frequency Polygon for Delivery time",
+      xlab ="Delivery time",ylab="Frequancy",ylim=c(0,max(cum.freq)))
> cbind(Upper=breaks,cum.freq=new)
      Upper cum.freq
 [1,]    20        0
 [2,]    26        2
```

```
+ }
> plot(breaks,new,type='l',main = "Cumilative Frequency Polygon for Delivery time",
+      xlab ="Delivery time",ylab="Frequancy",ylim=c(0,max(cum.freq)))
> cbind(Upper=breaks,cum.freq=new)
      Upper cum.freq
 [1,]    20        0
 [2,]    26        2
 [3,]    31        5
 [4,]    37       11
 [5,]    42       20
 [6,]    48       26
 [7,]    53       29
 [8,]    59       35
 [9,]    64       38
[10,]    70       40
>
```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Cumilative Frequency Polygon for Delivery time
Frequancy
0
10
20
30
40
20
30
40
50
60
70
Delivery time