

# IT2120 - Probability and Statistics – Lab – 05

IT24100052-Ahamed MSA

1.

```
# Setting the working directory  
setwd("C:\\Users\\HEALTHY MACHINES\\Desktop\\IT24100052")
```

2.

```
# breaks for the histogram  
breaks <- seq(20, 70, by = 5)  
# Create the histogram  
hist(Delivery_Times$Delivery_Time_, breaks = breaks,  
      right = TRUE,  
      main = "Histogram of Delivery Times",  
      xlab = "Delivery Time")
```



3.

4.

```
# calculate the frequency table
freq_table <- hist(Delivery_Times$Delivery_Time_, breaks = breaks, right = TRUE, plot = FALSE)

# get the cumulative frequency
cum_freq <- cumsum(freq_table$counts)

# create the cumulative frequency polygon
plot(freq_table$mids, cum_freq, type = "o",
     main = "Cumulative Frequency Polygon",
     xlab = "Delivery Time",
     ylab = "Cumulative Frequency")

# Boxplot for Sales
boxplot(branch_data$Sales_X1,
       outline = TRUE,
       outpch=8,
       horizontal=TRUE,
       main = "sales distribution")
```

