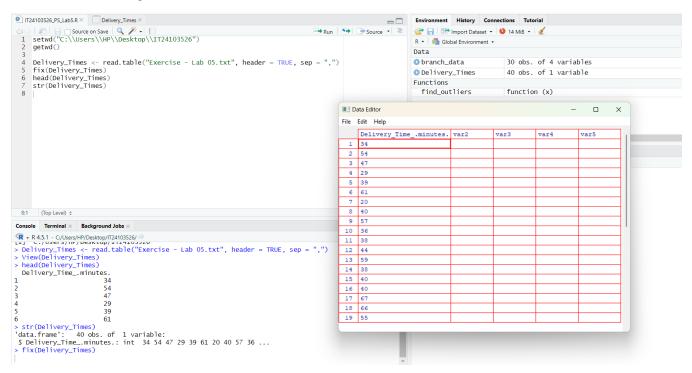
### IT2120 - Probability and Statistics

# Lab Sheet 05

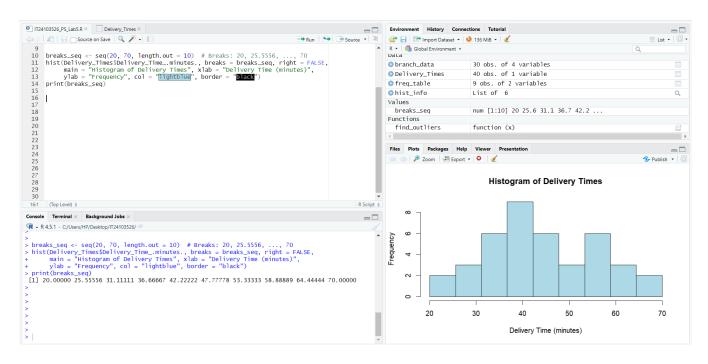
## IT24103526 - Senaratne P.A.R.T.

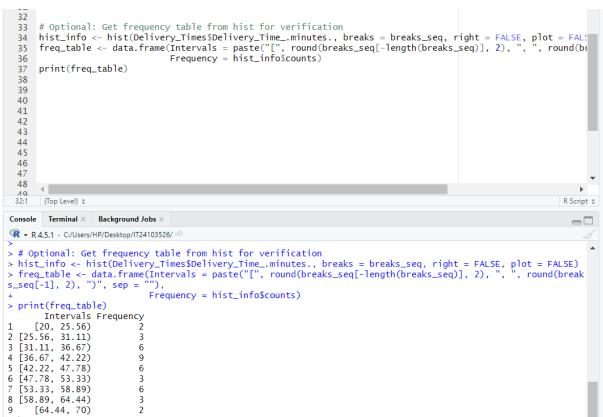
#### Exercise

 Import the dataset ('Exercise – Lab 05.txt') into R and store it in a data frame called "Delivery\_Times".



2. Draw a histogram for deliver times using nine class intervals where the lower limit is 20 and upper limit is 70. Use right open intervals.





#### 3. Comment on the shape of the distribution.

The shape of the distribution is unimodal with a primary peak in the interval [36.67, 42.22) minutes, where 9 deliveries occur. It appears approximately symmetric around the center but with a slight right skew, as the tail extends to higher values (up to 67 minutes) and there is a secondary cluster or minor peak in the [53.33, 58.89) interval with 6 deliveries. Overall, most delivery times are concentrated between 30 and 50 minutes, indicating moderate variability without extreme outliers.

4. Draw a cumulative frequency polygon (ogive) for the data in a separate plot.

