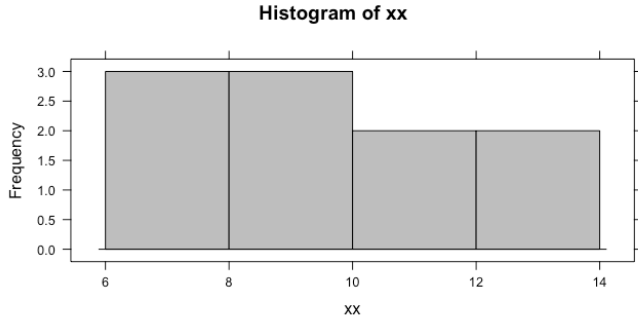
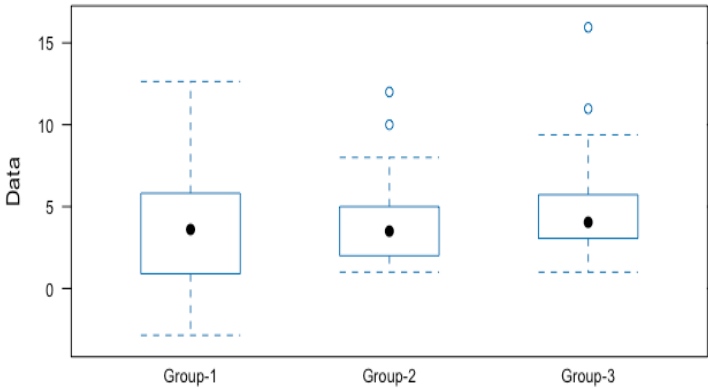
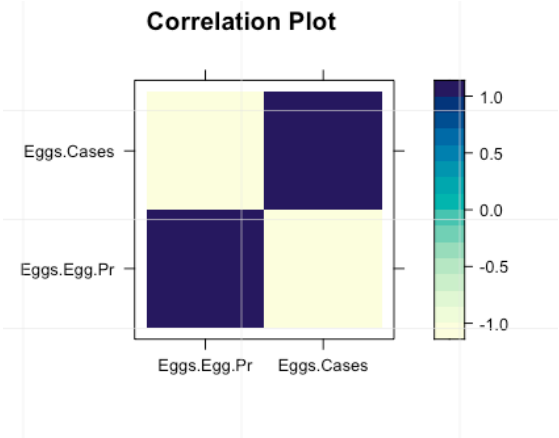
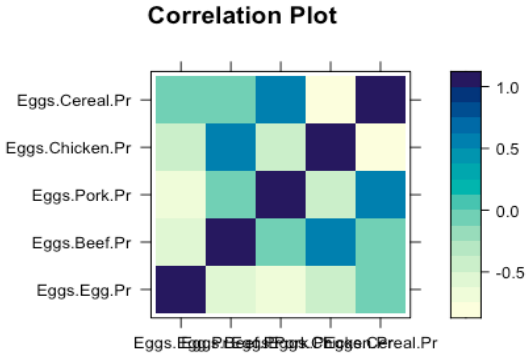


Exercise1

Code	Chart																												
<pre>library(lattice) xx &lt;- c(9.20, 6.00, 6.00, 11.25, 11.00, 7.25, 9.7, 13.25, 14.00, 8.00) histogram(~ xx, main="Histogram of xx", xlab="xx", ylab="Frequency",type="count", breaks = c(6, 8, 10, 12, 14),right = F,col="gray")</pre>	 <p>A histogram titled "Histogram of xx" showing the frequency of values for variable xx. The x-axis is labeled "xx" and ranges from 6 to 14. The y-axis is labeled "Frequency" and ranges from 0.0 to 3.0. The histogram has four bars with the following frequencies: 3 for the first bin (6-8), 3 for the second bin (8-10), 2 for the third bin (10-12), and 2 for the fourth bin (12-14). The bars are gray with black outlines.</p> <table border="1"><thead><tr><th>xx Range</th><th>Frequency</th></tr></thead><tbody><tr><td>6 - 8</td><td>3</td></tr><tr><td>8 - 10</td><td>3</td></tr><tr><td>10 - 12</td><td>2</td></tr><tr><td>12 - 14</td><td>2</td></tr></tbody></table>	xx Range	Frequency	6 - 8	3	8 - 10	3	10 - 12	2	12 - 14	2																		
xx Range	Frequency																												
6 - 8	3																												
8 - 10	3																												
10 - 12	2																												
12 - 14	2																												
<pre>library(lattice) set.seed(591) xx1 &lt;- rnorm(20, mean = 3, sd = 3.6) xx2 &lt;- rpois(40, lambda = 3.5) xx3 &lt;- rchisq(31, df = 5, ncp = 0) df1 &lt;- data.frame(xx1, levels = "Group-1") df2 &lt;- data.frame(xx2, levels = "Group-2") df3 &lt;- data.frame(xx3, levels = "Group-3") colnames(df1) &lt;- c("Data","Group") colnames(df2) &lt;- c("Data","Group") colnames(df3) &lt;- c("Data","Group") df &lt;- bind_rows(df1,df2,df3) bwplot(Data~Group,df)</pre>	 <p>A boxplot titled "Data by Group" showing the distribution of Data for three groups: Group-1, Group-2, and Group-3. The y-axis is labeled "Data" and ranges from 0 to 15. The x-axis is labeled "Group" and has categories Group-1, Group-2, and Group-3. Each group has a boxplot with a median line, a box representing the interquartile range, and whiskers extending to the minimum and maximum values. Outliers are shown as open circles. Group-1 has a median around 4, Group-2 has a median around 4, and Group-3 has a median around 4. Group-3 has several outliers, including one near 16.</p> <table border="1"><thead><tr><th>Group</th><th>Median</th><th>Q1</th><th>Q3</th><th>Min</th><th>Max</th><th>Outliers</th></tr></thead><tbody><tr><td>Group-1</td><td>~4</td><td>~1</td><td>~6</td><td>~-2</td><td>~13</td><td>None</td></tr><tr><td>Group-2</td><td>~4</td><td>~2</td><td>~5</td><td>~1</td><td>~8</td><td>~10, ~12</td></tr><tr><td>Group-3</td><td>~4</td><td>~3</td><td>~6</td><td>~1</td><td>~10</td><td>~11, ~12, ~16</td></tr></tbody></table>	Group	Median	Q1	Q3	Min	Max	Outliers	Group-1	~4	~1	~6	~-2	~13	None	Group-2	~4	~2	~5	~1	~8	~10, ~12	Group-3	~4	~3	~6	~1	~10	~11, ~12, ~16
Group	Median	Q1	Q3	Min	Max	Outliers																							
Group-1	~4	~1	~6	~-2	~13	None																							
Group-2	~4	~2	~5	~1	~8	~10, ~12																							
Group-3	~4	~3	~6	~1	~10	~11, ~12, ~16																							

Exercise2

Code	Chart
<pre>Eggs&lt;-read.csv("http://jolej.linuxpl.info/Eggs.csv", header=TRUE) library(lattice) a1&lt;-data.frame(Eggs\$Egg.Pr,Eggs\$Cases) corMatrix &lt;- cor(a1) levelplot(corMatrix, xlab = " ", ylab = " ", main = "Correlation Plot") trellis.par.set(panel.grid = panel.grid(lty = 1, lwd = 0.5))</pre>	 <p>A heatmap titled "Correlation Plot" showing the correlation between two variables: Eggs.Cases and Eggs.Egg.Pr. The plot is a 2x2 grid. The diagonal elements (top-left and bottom-right) are yellow, representing a correlation of 1.0. The off-diagonal elements (top-right and bottom-left) are dark blue, representing a correlation of approximately 0.9. A color scale on the right ranges from -1.0 (yellow) to 1.0 (dark blue).</p>
<pre>Eggs&lt;-read.csv("http://jolej.linuxpl.info/Eggs.csv", header=TRUE) library(lattice) a2&lt;-data.frame(Eggs\$Egg.Pr,Eggs\$Beef.Pr,Eggs\$Pork.Pr,Eggs\$Chicken.Pr,Eggs\$Cereal.Pr) corMatrix &lt;- cor(a2) levelplot(corMatrix, xlab = " ", ylab = " ", main = "Correlation Plot") trellis.par.set(panel.grid = panel.grid(lty = 1, lwd = 0.5))</pre>	 <p>A heatmap titled "Correlation Plot" showing the correlation between five variables: Eggs.Cereal.Pr, Eggs.Chicken.Pr, Eggs.Pork.Pr, Eggs.Beef.Pr, and Eggs.Egg.Pr. The plot is a 5x5 grid. The diagonal elements are yellow (1.0 correlation). The off-diagonal elements show varying degrees of correlation, with colors ranging from light green (low correlation) to dark blue (high correlation). A color scale on the right ranges from -1.0 (yellow) to 1.0 (dark blue).</p>