


Assignment-5

Question 1: In the obama_vs_mccain dataset, find the (Pearson) correlation between the percentage of unemployed people within the state and the percentage of people that voted for Obama.

Ans:

code	Solution
<pre>obama_vs_mccain <- obama_vs_mccain[!is.na(obama_vs_mccain\$Turnout),] cor(obama_vs_mccain\$Unemployment, obama_vs_mccain\$Obama, method = "pearson")</pre>	<pre>> obama_vs_mccain <- obama_vs_mccain[!is.na(obama_vs_mccain\$Turnout),] There were 12 warnings (use warnings() to see them) > cor(obama_vs_mccain\$Unemployment, obama_vs_mccain\$Obama, method = "pearson") [1] 0.3043441</pre>

1. **Question 2:** Draw a scatterplot of the two variables, using a graphics system of your choice. (For bonus points, use all three systems.) for one plot, for all three using the obama_vs_mccain dataset

Code	solution
<pre>library(learningr) data(obama_vs_mccain, package = "learningr") obama_vs_mccain with(obama_vs_mccain, plot(Unemployment,Obama))</pre>	 <p>A scatterplot showing the relationship between the percentage of unemployed people (Unemployment) on the x-axis and the percentage of people that voted for Obama (Obama) on the y-axis. The x-axis ranges from approximately 3.5 to 9.5, with major ticks at 4, 5, 6, 7, 8, and 9. The y-axis ranges from approximately 30 to 90, with major ticks at 40, 80, and 120. The data points are represented by open circles, showing a positive correlation between the two variables.</p>