

Student	Lowri Jones	79
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Part 1

	Available	Marks
Load <i>iris.xlsx</i> data into data frame	3	3
Headers are correct	1	1
Species names are a factor	1	1
Loop for <i>iris Setosa</i>	4	3
Loop for <i>iris Versicolour</i>	4	3
Loop for <i>iris Virginica</i>	4	3
Binding results to <i>irisSummary</i>	3	3
Pearson correlation	5	5
Labelled scatterplot	5	5
Correct use of function	3	0
Calculation for <i>iris Setosa</i>	3	1
Calculation for <i>iris Versicolour</i>	3	1
Calculation for <i>iris Virginica</i>	3	1
Binding results to <i>irisSummary</i>	3	0
Commenting, white space, and code presentation	5	5
Comments The code for the loops works, but you didn't need to put it in a function (which doesn't work). The <i>calculateArea</i> function needs to be defined before it is used, and needs to include code to identify which species it is so that it can choose the appropriate equation.		

Part 2

	Available	Marks
Load <i>Kicks.xlsx</i> into <i>kickData</i> data frame	5	5
Generate statistics for air-filled balls	7	6
Generate statistics for helium-filled balls	7	6
Binding results to <i>kickSummary</i>	1	0
Removing the outliers	10	10
Performing the t-test	5	3
Extract data for Neil	4	4
Extract data for Jonny	4	4
Test for significant difference	2	1
Commenting, white space, and code presentation	5	5
Comments The range should be a single figure, calculated by subtracting the lower range from the upper range. The data frame <i>kickSummary</i> should have three columns, one with labels, one with the statistics for air and the third containing the statistics for helium. Well-spotted with the Shapiro test! ☺ The code for the t-test is correct, but you've interpreted it incorrectly. It gives $p > 0.05$ so you cannot reject the null hypothesis. You've extracted the data correctly for the t-test between Neil and Jonny, but haven't interpreted the result.		

0 – Nothing submitted

3 – Major errors and no comments

4 – Minor errors, code does not work

5 – Code works, no comments

6 – Code works, minor comments

7 – Code works, good comments

8+ – Elegant code, fully commented and explained