Assignment part 1: Scoring Rubric

Criterion 1: Selection of statistical tests and summary statistics (40%)

Level	Score	Description
Insufficient	3	Tests are largely inappropriate; assumptions are ignored or misunderstood. Summary measures do not match variable types.
Sufficient	6	Tests are mostly correct but assumptions are not consistently checked or may be misapplied. Summary measures are mostly appropriate.
Good	8	All tests are correctly chosen with minor issues in assumption checking or interpretation. Summary measures match variable types and distributions.
Excellent	10	All tests are correctly chosen, and all relevant assumptions are appropriately checked and addressed. Appropriate post-hoc tests are selected when needed. Summary measures are well-chosen for variable types and distributions.

Criterion 2: Interpretation of results (30%)

Level	Score	Description
Insufficient	3	Results are largely misinterpreted, with major errors or irrelevant explanations. Confidence intervals are ignored or misunderstood.
Sufficient	6	Most results are interpreted correctly but explanations may be unclear or incomplete. Confidence intervals are reported but not always correctly interpreted.
Good	8	All results are interpreted correctly, with minor issues in clarity. Confidence intervals are used appropriately.
Excellent	10	All results are interpreted correctly, with clear and concise explanations that align with research questions. Confidence intervals are correctly interpreted.

Criterion 3: Presentation and reporting (20%)

Level	Score	Description
Insufficient	3	Presentation is disorganized or unprofessional, with major formatting or content issues. Test statistics are not properly reported.
Sufficient	6	Presentation is acceptable but inconsistent, with some formatting issues. Test statistics may be incomplete.
Good	8	Presentation is clear and professional overall, with minor issues in formatting. Most test statistics are correctly reported.
Excellent	10	Tables, figures, and text are highly professional, clear, and fully aligned with reporting guidelines. Test statistics are properly reported with appropriate detail.

Criterion 4: Data handling and reproducibility (10%)

Level	Score	Description
Insufficient	3	R script or SPSS output is incomplete or poorly structured. Individualized dataset is not correctly created (wrong seed or sampling) or cannot be verified.
Sufficient	6	R script or SPSS output is mostly complete but with omissions or unclear structure. Dataset creation steps may be unclear.
Good	8	R script or SPSS output is complete with minor documentation issues. Dataset is correctly created.
Excellent	10	R script or SPSS output is complete, logically structured, and allows full reproducibility. Individualized dataset is correctly created with proper seed and sampling, clearly documented.

Grade calculation

Criterion	Weight	Score	Weighted Score
Selection of statistical tests and summary statistics	40%	_____	_____
Interpretation of results	30%	_____	_____
Presentation and reporting	20%	_____	_____
Data handling and reproducibility	10%	_____	_____
Final Grade	**100%**		****_____****

Example calculation

Criterion	Weight	Score	Weighted Score
Selection of statistical tests	40%	8	3.2
Interpretation of results	30%	6	1.8
Presentation and reporting	20%	8	1.6
Data handling and reproducibility	10%	10	1.0

Criterion	Weight	Score	Weighted Score
Final Grade	**100%**		**7.6**