10-9 points	8-7 points	6 points	0-5 points	Feedback and comments
CONTENT 100%				
Research Question 10%☐ The research question is well-formulated, precise, and significant. The RQ includes clear data processing, modelling, quantitative analysis, and visualization. The data check is complete and thorough.	☐ The research question is clear and significant. The RQ includes data processing, modelling, quantitative analysis, and visualization. The data is carefully checked	☐ The research question is clear. The RQ involves part of data processing, quantitative analysis, and visualization The basic quality of the data is checked.	☐ The research question is not so clear. The RQ is not relevant to data analysis or visualization. The choice of data cannot well answer the research question. The raw data is not checked before using.	
Coding/Logic 30%☐ Code is exceptionally well-organized and follows best practices. Logic is flawless, and the solution demonstrates a deep understanding of the problem. Code is efficient, maintainable, and thoroughly documented/described with comments. Demonstrates creative problem-solving and goes beyond the project requirements.	☐ Code is well-structured and follows good coding practices. Logic is sound, and the solution effectively addresses the research question. Code is reasonably efficient, maintainable, and adequately described with comments. Meets most of the project requirements.	☐ Code structure is somewhat disorganized or lacks consistency. Logic contains minor flaws or inefficiencies, but it generally meets the project requirements. Code description is minimal or missing in some areas. Meets the core project requirements without any significant enhancements or creativity.	☐ Code is poorly structured and lacks adherence to coding standards. Logic contains major flaws or errors, making the solution ineffective. Code lacks description, making it difficult to understand. Fails to meet essential project requirements and may not compile or run as expected	
Technical Quality & Significance 10% ☐ Data analysis and visualization is exceptionally well-designed and closely aligns with the project requirements. Utilizes proper modelling techniques and tools. Demonstrates a deep understanding of data relationships and dependencies.	☐ Data analysis and visualization is well-structured and adequately addresses the project requirements. Employs suitable modelling techniques and tools proficiently. Data relationships are logically defined and accurately represent the domain.	☐ Data analysis and visualization is somewhat disorganized or lacks full alignment with the project requirements. Utilizes basic modelling techniques but may have some inaccuracies. Data relationships are represented but may lack some clarity or completeness.	☐ Data analysis and visualization is poorly structured and significantly deviates from project requirements. Utilizes incorrect or inadequate modelling techniques and tools. Data relationships are unclear, incomplete, or incorrect.	
Narrative 30%☐ The narrative is exceptional, demonstrating a compelling and well-crafted story that engages the reader from start to finish. It effectively sets the stage, clearly defining the project's objectives, significance, and context. The flow of the narrative is seamless, with well-structured paragraphs and logical transitions. The writing style is smooth, demonstrating a mastery of language and conveying complex ideas with ease.	☐ The narrative is proficient, providing a clear and coherent story that effectively communicates the project's purpose and outcomes. It introduces the project with clarity, outlining its objectives and importance. The narrative flows logically, with well-organized sections and appropriate transitions. The writing style is clear and concise, effectively conveying the project's ideas and findings.	☐ The narrative is basic, with some areas needing improvement in clarity and coherence. It introduces the project's objectives but may lack some detail or context. The flow of the narrative is somewhat disjointed, with sections that may not connect seamlessly.	☐ The narrative is unsatisfactory, indicating significant weaknesses in clarity, coherence, and engagement. It may struggle to effectively introduce the project's objectives or establish its significance. The narrative lacks a clear flow, making it difficult for the reader to follow the story. The writing style may be confusing, with issues related to grammar, syntax, or word choice.	
Code Readability 20%☐ Code is exceptionally readable, following consistent and clear naming conventions. Comments are abundant, providing detailed explanations for complex sections of code. Indentation, spacing, and formatting are meticulously maintained for maximum readability. Design patterns and coding principles are applied to enhance code comprehensibility. The codebase is a model of clarity, making it easy for others to understand and work with.	☐ Code is well-organized and readable, with mostly clear naming conventions. Comments are present and offer adequate explanations for complex sections of code. Indentation, spacing, and formatting are generally consistent and conducive to readability. Design patterns and coding principles are applied appropriately. The codebase is generally easy to understand, but there may be minor areas for improvement.	☐ Code readability is basic, with some areas where naming conventions could be clearer. Comments may be somewhat sparse or could provide more detailed explanations for complex sections of code. Indentation, spacing, and formatting are present but may lack consistency in some areas. Design patterns and coding principles are applied inconsistently. The codebase is generally understandable but may require additional effort to navigate.	☐ Code readability is unsatisfactory, with unclear or inconsistent naming conventions. Comments are minimal or absent, leaving complex sections of code poorly explained. Indentation, spacing, and formatting are often lacking, hindering code comprehension. Design patterns and coding principles are not consistently applied, making the codebase challenging to understand. The codebase is difficult to read and understand, potentially leading to errors or inefficiencies.	
TOTAL POINTS				
				Final grade

KNOCK OUT CRITERIA

All group members must participate in the project actively (non-participating members will not receive a mark).

INSTRUCTIONS FOR GRADERS