Marking Criteria

SCIF30005 Mini Project

Mark	%	Criteria to be satisfied
20	100	• **Knowledge, skills and techniques:** The code is of exceptional quality demonstrating excellent understanding of programming methods and highly effective use of programming skills. This includes excellent use of best practice to ensure that code is clear (e.g. useful comments, understandable variable names) and well structured.
19	94	• **Communication, explanation and interpretation:** The submission includes a clear and thorough explanation of the methods used and an insightful interpretation of the results obtained. This is communicated effectively and in an engaging manner, both in the text of the report and in the included visualisations.
18	83	• **Problem solving:** The code functions to a very high standard and is robust with excellent programming style used throughout and no errors. Approaches taken in the solution are highly appropriate, showing confidence in problem solving and evidence of initiative and creativity, with an implementation that significantly builds on the original task.
17	78	• **Knowledge, skills and techniques:** The code is of high quality demonstrating a clear understanding of programming methods and highly effective use of programming skills. This includes good use of best practice to ensure that code is clear (e.g. useful comments, understandable variable names) and well structured.
16	75	• **Communication, explanation and interpretation:** The submission includes a clear and thorough explanation of the methods used and a thoughtful interpretation of the results obtained. This is communicated effectively, both in the text of the report and in the included visualisations.
15	72	• **Problem solving:** The code functions to a high standard and is robust with mostly excellent programming style and no errors. An effective solution has been produced, showing an ability to identify the key aspects of the problem solving task. The solution shows evidence of initiative, possibly building on the original task.
14	68	• **Knowledge, skills and techniques:** The code is of good quality, showing an understanding of programming methods and effective use of programming skills. This includes use of practices that ensure that code is clear (e.g. useful comments, understandable variable names) and well structured.

13	65	• **Communication, explanation and interpretation:** The submission explains the methods used and includes a correct interpretation of the results obtained. This is communicated effectively, both in the text of the report and in the included visualisations.
12	62	• **Problem solving:** The code mostly functions well and is robust with a good programming style and no major weaknesses. An effective solution has been produced, showing an ability to identify the key aspects of the problem solving task. All core tasks are addressed in the solution.
11	58	• **Knowledge, skills and techniques:** The code is of mostly good quality, showing an understanding of programming methods and some programming skill. The code is mostly clear and is structured, but likely with noticeable room for improvement.
10	55	• **Communication, explanation and interpretation:** The submission explains the methods used and includes an interpretation of the results obtained. This is communicated through the text of the report and the included visualisations, though this communication could be improved.
9	52	• **Problem solving:** The code may contain errors, but mostly functions well with no major weaknesses. A solution has been produced, showing at least a limited ability to identify the key aspects of the problem solving task. Most tasks are addressed successfully.
8	48	• **Knowledge, skills and techniques:** Some code is of reasonable quality, showing some understanding of programming methods, but with areas of weakness. The code may lack clarity and structure.
7	45	• **Communication, explanation and interpretation:** The submission attempts to explain the methods used and to interpret the results obtained. Some of this explanation is unclear and communicated poorly.
6	42	• **Problem solving:** Some parts of the code function, but there are errors. Demonstrates at most a limited ability to identify the key aspects of the problem solving task. Most tasks are attempted, some successfully.
5	35	• **Knowledge, skills and techniques:** Code is of poor quality, showing little understanding of programming methods.
4	29	
3	22	• **Communication, explanation and interpretation:** Attempts to describe the methods used and any results obtained are unclear and poorly communicated.
2	15	
1	7	• **Problem solving:** The code is mostly non-functional, with multiple errors. Fails to demonstrate any significant ability to identify the key aspects of the problem. Some parts of the exercise may have been attempted, but not the majority and with limited success.
0	0	

The mark scheme is the same as for the programming exercise, however since this is a mini project rather than a programming exercise, the weighting will be different, with the report and code having approximately equal weighting.