

### IT1312 Programming Assignment – Assessment Rubrics

	Excellent (A)	Very Good (B)	Satisfactory (C)	Needs Improvement (D)	Unsatisfactory (F)
Correctness (40 marks)	The program generates accurate and visually appealing fractal patterns, demonstrating a deep understanding of the algorithms. The implemented fractals match the specifications and exhibit correct self-replicating structures.	The program generates mostly correct fractal patterns, with minor issues in accuracy or visual appearance. The core concepts of the selected fractals are well-implemented.	The program produces some correct fractal patterns, but there are notable inaccuracies or deviations from the specified algorithms. The understanding of the fractal generation may be limited.	The program has significant errors, and the generated fractals do not align with the specified algorithms. The understanding of the fractal generation concepts is lacking.	The program fails to generate meaningful fractal patterns, and the implementation lacks understanding or effort.
Code Quality and Readability (5 marks)	The code is well-structured, highly readable, and follows best practices. It includes comments, proper indentation, and meaningful variable names.	The code is mostly well-organized, with some areas that could be improved for better readability. Comments and variable names are generally clear.	The code is functional but lacks consistent organization. Comments and variable names could be improved for better understanding.	The code is disorganized and challenging to follow. It lacks comments, and variable names are unclear in many places.	The code is poorly written, lacks structure, and is difficult to understand.
Creativity and Variation (5 marks)	The program shows creativity in the implementation, with additional features or variations beyond the basic requirements. The student has experimented with different parameters or presented unique visualizations.	The program exhibits some creativity, with variations or features that enhance the visual appeal of the fractals.	The program follows the basic requirements without significant creative elements. The implementation is competent but lacks additional innovation.	The program lacks creativity and variation. The implementation is basic and does not go beyond the minimal requirements.	There is a complete lack of creativity or variation in the fractal patterns. The implementation is uninspired.

Marks Distribution

	<i>Correctness (40 marks)</i>	<i>Code Quality and Readability (5 marks)</i>	<i>Creativity and Variation (5 marks)</i>	<i>TOTAL</i>
<i>Question 1(a)</i>	<i>8</i>	<i>2</i>	<i>0</i>	<i>10</i>
<i>Question 1(b)</i>	<i>18</i>	<i>2</i>	<i>0</i>	<i>20</i>
<i>Question 2</i>	<i>14</i>	<i>1</i>	<i>5</i>	<i>20</i>
<i>TOTAL</i>	<i>40</i>	<i>5</i>	<i>5</i>	<i>50</i>

**-- End of Assessment Rubrics --**