Practical 1 Name Description Rubric Detail Levels of Achievement Needs Incorrect / Not Excellent (5 Good (4 **Satisfactory** Criteria **Improvement** attempted (0 marks) marks) (3 marks) (2)marks) **Bubble Sort 5 Points** 3 Points 2 Points 4 Points **0 Points Implementation** Correctly **Implements Bubble Sort Bubble Sort is** Used Built-In (5 marks) implements **Bubble Sort** implemented functions or not **Bubble Sort with** correctly but implemented but has major implemented or an efficient has minor but contains errors, such completely stopping condition. inefficiencies some errors as incorrect incorrect Sorting is accurate, implementation. in stopping affecting logic or and the condition or sorting missing implementation logic. Testing stopping accuracy. follows best coding is mostly **Partial** condition. practices. complete. testing is Minimal Thorough testing is done. testing is done using conducted. SortsTestHarness. **Insertion Sort** 3 Points 2 Points **5 Points** 4 Points **0 Points Implementation Implements** Insertion Sort Used Built-In Correctly Insertion (5 marks) implements Insertion Sort is is functions or not Insertion Sort with Sort implemented implemented implemented or correctly but but contains proper logic. but contains completely Sorting is accurate, has minor major errors, incorrect errors inefficiencies such as implementation. and the affecting in logic or implementation sorting incorrect logic follows best coding optimization. accuracy. or missing practices. Testing is Partial steps. Thorough testing is mostly Minimal testing is done using complete. done. testing is SortsTestHarness. conducted. **Selection Sort** 4 Points 3 Points 2 Points **0 Points 5 Points Implementation** Used Built-In Correctly **Implements** Selection Selection Sort (5 Marks) implements Selection Sort is functions or not implemented implemented Selection Sort with Sort implemented or appropriate logic. correctly but but contains but contains completely Sorting is accurate, has minor major errors, incorrect errors and the inefficiencies affecting such as implementation. implementation in logic or incorrect logic sorting follows best coding optimization. accuracy. or missing practices. Testing is Partial steps. Thorough testing is mostly testing is Minimal done using complete. done. testing is SortsTestHarness. conducted. Sorting 4 Points 5 Points 3 Points 2 Points **0 Points Performance** Comprehensive Good Analysis Minimal No analysis or **Investigation (5** runtime analysis analysis with includes a analysis, missing Marks) with a wella mostly basic table. missing key submission.

complete

table

but missing

cases or

organized table for

different cases

elements like

table or

Criteria	Excellent (5 marks)	Good (4 marks)	Satisfactory (3 marks)	Needs Improvement (2)	Incorrect / No attempted (0 marks)
	(e.g., ascending, descending, random, nearly sorted). Insightful discussion on time complexity, best/worst/average cases, and scalability.	covering multiple cases. Discussion provides reasonable insights but lacks depth.	lacks explanation of results. Discussion is minimal.	discussion. Very limited insights provided.	
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