**IT1009 – Data Structures and Algorithms - RUBRICS**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Experiment Component** | **Max. Marks** | **Grading Rubrics** | | | |
| **Algorithm/Flowchart** | 2 | |  | | --- | | Algorithms are written clearly as pseudo codes, focusing and mentioning, every step to solve the given problem (demonstrates good clarity in understanding the problem statement). Appropriate use of proper symbols for different operations in flowchart. Correctness of logic in algorithm/flowchart is taken care off. (2 marks) | | | |  | | --- | | Algorithms are written as pseudo codes, but lacks clarity in identifying different independent steps, to solve the given problem (demonstrates less clarity in understanding the problem statement). Use of inappropriate symbols for few operations in flowchart. Correctness of logic in algorithm/flowchart is taken care off**.** (1 mark) | | |
| **Program** | 3 | Completeness of code, consistent variable naming and formatting, well commented, uses existing skills in new ways/learns new skills to solve the experimental problem. (3 marks) | Completeness of code, consistent variable naming and formatting, well commented, uses existing skills in new ways/learns new skills to solve the experimental problem. (2 marks) | | Completeness of code, consistent variable naming and formatting, well commented, uses existing skills in new ways/learns new skills to solve the experimental problem. (1 mark) |
| **Program Execution** | 3 | Program is free of errors and output is well formatted. Demonstrates  excellent problem solving and creativity skills.  (3 marks) | Program is free of errors and output is not properly formatted.  Demonstrates a clear understanding of the concepts relevant to the experiment.  (2 marks) | | Program contains few logical errors and output is not formatted.  Demonstrates partial understanding of the concepts relevant to the experiment.  (1 mark) |
| **Program Testing** | 2 | Decision control logic, loop logic in program exhibits proper functional behavior and Output is obtained for varying sets of input data. (2 marks) | | Decision control logic, loop logic in program exhibits proper functional behavior and Output is obtained for few sets of input data. (1 mark) | |