

CSC1024 Programming Principles Final Assessment - Marking Rubric

Code Presentation	0	1	2	3	4	5	Max Marks
Code Comments	Missing.	Comments available within the .py file that properly documents PART of the following: - Purpose of the program - Purpose of variables used in the program - Programming techniques - Program logic and flow - Documentation for each function clearly stated.	Comments available within the .py file that properly documents MOST of the following: - Purpose of the program - Purpose of variables used in the program - Programming techniques - Program logic and flow - Documentation for each function clearly stated.	Comments available within the .py file that properly documents ALL the following: - Purpose of the program - Purpose of variables used in the program - Programming techniques - Program logic and flow - Documentation for each function clearly stated.			3
Identifier Names	Identifier names not reflecting its intended usage in the code.	<45% of the identifier names clearly reflects its intended usage in the program.	45% - 90% of the identifier names clearly reflects its intended usage in the program.	All identifier names clearly reflects its intended usage in the program.			3
Code Readability	Poor coding style used throughout the program with proper spacing and formatting	Acceptable coding style used throughout the program with proper spacing and formatting	Good coding style used throughout the program with proper spacing and formatting				2

Overall Program Functionality and Completion	0	1	2	3	4	5	Max Marks
Add Book Record(s)	Missing.	Errors - Error adding information	No issue - Information can be added successfully.				2
Delete Book Record(s)	Missing.	Errors - Error deleting information	No issue - Information can be deleted successfully.				2
Update/Edit Book Record(s)	Missing.	Errors - Error updating/editing information	No issue - Information can be updated/edited successfully.				2
Display	Missing.	Errors - Error displaying information.	No issue - All Information are displayed correctly.				2
Search for Book(s)	Missing.	Errors - Error searching for books	No issue - Working fine with book list returned correctly.				2
Exit (Writing data to file)	Exits program without updating the file	Errors - File written successfully with minor errors.	No issue - File written successfully with all information updated.				2
Program Technical Considerations	0	1	2	3	4	5	Max Marks
User Interface/User Interaction	Menu options visible with very disorganised formatting that hinder user comprehension. User interface is very cumbersome to use. Information is presented in very disorganised and cluttered that makes it incomprehensible. Users are not given proper instruction to navigate through the program.	Menu options visible with major formatting issues. User interface is inconsistent throughout the program. Information is presented in an organised manner with major formatting issues that hinders the information from being understood. Users are given MINIMAL instruction to navigate through the program	Menu options visible with major formatting issues. Program navigation is inconsistent at certain areas. Information is presented in an organised manner with major formatting issues that does not hinder the information from being understood. Users are given PARTIAL instruction to navigate through the program.	Menu options visible with minor formatting issues. Program is relatively easy to use/navigate. Information is presented in an organised manner with minor formatting issues. Users are given MOST of the necessary instruction to navigate through the program.	Menu options are visible. Program is easy to use/navigate. Information is presented in a very neat and organised manner with slight alignment issues. Users are given ALL the necessary instruction to navigate through the program.	Menu options clearly visible. Program is very user friendly and easy to use/navigate. Information is presented in a very neat and organised manner. Users are given ALL the necessary instruction to navigate through the program.	10

Error Handling and Data Validation	Missing.	Code covers MINIMAL data validation and error handling throughout the entire program	Code covers only PART of data validation and error handling throughout the entire program	Code covers MAJORITY of the data validation and error handling throughout the entire program	Code covers MOST of the important data validation and error handling throughout the entire program	Code covers ALL possible data validation and error handling throughout the entire program	10
Programming Techniques, Logic, and Control Flow	0	1	2	3	4	5	Max Marks
Input and display data	Error in obtaining input data from user. Data displayed is incomprehensible.	Issues obtaining data from user. Inefficient use of variables to store the data for processing (redundant variables). Data displayed correctly with major formatting issue.	No issues obtaining data from user. Inefficient use of variables to store the data for processing (redundant variables). Data displayed correctly with major formatting issue.	No issues obtaining data from user. Inefficient use of variables to store the data for processing (redundant variables). Data displayed correctly with minor formatting issue.	No issues obtaining data from user. Appropriate and efficient number of variables used to store the data for processing. Data displayed correctly with minor formatting issue.	No issues obtaining data from user. Appropriate and efficient number of variables used to store the data for processing. Data displayed correctly with excellent formatting.	5
Lists and file processing	Major Errors II - Error in opening and writing to file. OR List not used for processing OR Missing files for processing	Major Errors I - File opened successfully with no errors. Major error using python list for data storage and manipulation. OR File opened and closed repeatedly without using list for data manipulation.	Minor Errors II - File opened successfully with no errors. File written successfully with significant errors in the data due to list manipulation. Major error using python list for data storage and manipulation.	Minor Errors I - File opened successfully with no errors. File written successfully with minor errors in the data due to list manipulation. Minor error using python list for data storage and manipulation.	Not robust - File opened and written successfully but using wrong approach/not formulated well. Python list used correctly for data storage and manipulation.	No issue - File opened and written successfully with good program style and using correct approach. Python list used correctly in an optimal manner for data storage and manipulation.	5
Search from a list	Missing	Major Errors II - Search function is not working well with ISBN, author, or title input OR Using other inputs The search implemented is case-sensitive.	Major Errors I - Search function is working well with ISBN, author, or title input The search implemented is case-insensitive.	Minor Errors - Search function is working well with ISBN, author, or title input The search implemented is case-sensitive.	Not robust - Search function is working well with ISBN, author, and title input However, algorithm could be improved The search implemented is case-insensitive.	No issue - Search function is working well with all ISBN, author, and title input option Displays ALL the results as expected. The search implemented is case-insensitive.	5
If statement, and relational and logical operators	Attempted defining the code but total illogical algorithm design	Partial algorithm design is illogical.	Major Errors - Algorithm design issue causing error in the overall program output.	Minor Errors - Algorithm design could be improved.	Not robust - working fine but programming style could be improved.	No issue - Working fine with good programming style and approach	5
Loops	Attempted defining the code but total illogical algorithm design	Partial algorithm design is illogical.	Major Errors - Algorithm design issue causing error in the overall program output.	Minor Errors - Algorithm design could be improved.	Not robust - working fine but programming style could be improved.	No issue - Working fine with good programming style and approach	5
User-defined function	Missing	Self-defined functions are NOT used appropriately throughout the program. Noticeable redundant codes repeated in the program unnecessarily. Function calls NOT utilised correctly. Data NOT returned correctly from function causing error.	Self-defined functions are used appropriately throughout the program. Noticeable redundant codes repeated in the program unnecessarily. Function calls utilised correctly. Data returned from function without issues.	Self-defined functions are used appropriately throughout the program. No redundant codes repeated in the program unnecessarily. Function calls utilised correctly. Data returned from function using global variables.	Self-defined functions are used appropriately throughout the program. Minimal redundant codes repeated in the program unnecessarily. Function calls utilised correctly. Data returned from function without issues.	Self-defined functions are used appropriately and efficiently throughout the program. No redundant codes repeated in the program unnecessarily. Function calls utilised correctly. Data returned from function without issues.	5
Report	0	1	2	3	4	5	Max Marks
Flowchart	Missing.	Wrong symbols used in the flowchart/overall structure is wrong.	The flowchart contains more than 10 mistakes when mapped to the program.	The flowchart contains 6 - 10 mistakes when mapped to the program.	The flowchart contains 1 - 5 mistakes when mapped to the program.	The flowchart is accurate when mapped to the program.	10

Discussion of the programming techniques used	Missing.	Exhibits minimal understanding of the code. Unable to explain the technical implementation of the problem solving techniques as well as the programming techniques used correctly .	Exhibits partial understanding of the code. Able to explain the technical implementation of the problem solving techniques as well as the programming techniques used with minor errors.	Exhibits good understanding of the code. Able to explain the technical implementation of the problem solving techniques as well as the programming techniques used correctly.	Exhibits excellent understanding of the code. Able to explain the technical implementation of the problem solving techniques as well as the programming techniques used clearly and correctly.		4
Sample test cases and outputs	Missing.	Only 1 sample test case and output clearly shown for 1 - 3 of the tasks (Task I - VI).	Only 1 sample test case and output clearly shown for 4 - 6 of the tasks (Task I - VI).	1 - 2 sample test cases and output clearly shown for 1 - 3 of the tasks (Task I - VI).	1 - 2 sample test cases and output clearly shown for 4 - 6 of the tasks (Task I - VI).	2 or more sample test cases and output clearly shown for ALL tasks (Task I - VI).	4
Sample text file	Less than 3 reservations listed in the text file OR Missing	3 - 8 reservations listed in the text file	9 - 14 reservations listed in the text file	15 - 19 reservations listed in the text file	20 or more reservations listed in the text file		2
Presentation	Absent	Does not exhibits understanding of the code. Unable to explain the technical implementation of the problem solving techniques as well as the programming techniques used correctly .	Exhibits minimal understanding of the code. Able to explain the technical implementation of the problem solving techniques as well as the programming techniques used with major error.	Exhibits partial understanding of the code. Able to explain the technical implementation of the problem solving techniques as well as the programming techniques used with minor errors.	Exhibits good understanding of the code. Able to explain the technical implementation of the problem solving techniques as well as the programming techniques used correctly.	Exhibits excellent understanding of the code. Able to explain the technical implementation of the problem solving techniques as well as the programming techniques used clearly and correctly.	10

Submission Status					
Late Submission	By the deadline.	Late.			
File Name Format	Follow.	Not follow.			