## **Pseudocode**

Try to open "data.txt" file in read mode and store into variable "f" Load the JSON data and store into "data" variable Close file Exception FileNotFound error message if "data.txt" cannot be found Set "data" variable to be an empty list. Print Welcome to Joke Catalogue Admin Program While the loop remains True If the user inputs 'a' Create dictionary, store values "setup", "punchline", "laughs" and "groans" Append the dictionary to the data list Call the "save\_data" function Print "Joke has been added" Else if the user inputs 'l' If the data list is empty print "No jokes saved" Else print "list of jokes: " For each joke in the data list Print each joke along with its index number Else if the user inputs 's' If the data list is empty Print "No jokes saved" Else Retrieve user input for search term Convert user input to lower case Set "noMatches" to True to check for matches Print "Search results: " For each joke in the data list If the search term is in the setup or punchline Print the corresponding joke and index Change "noMatches" to false If "noMatches" is still True Print "No matches have been found" Else if the user inputs 'v' If the data list is empty Print "No jokes saved" Else Retrieve user input for search number Set "noMatches" to True to check for matches For each joke in the data list

If the search number is equivalent to the index Print the setup and punchline If the value of "laughs" and "groans" is 0 Print "This joke has not been rated" Else Print number of "laughs" and "groans" Set "noMatches" to False. If "noMatches" is True Print "Invalid index number" Else if the user inputs 'd' If the data list is empty Print "No jokes saved" Else Retrieve user input for joke number to delete Set "noMatches" to True to check for matches. For each joke in the data list If the user input value is equal to the index Delete the selected joke Print "Joke deleted" Call "save data" function to overwrite data.txt Set "noMatches" to False If "noMatches" remains True Print "Invalid Index Number" Else if the user inputs 'q' Print "Goodbye!" Break the while loop Else Print "Invalid choice" to show user input was wrong, while loop continues **FUNCTIONS:** Define "input int" function (receives "prompt") While the loop remains True Retrieve user input and store into "value" Try to convert "value" to an integer Exception error message if "value" cannot be converted to an int Continue while loop If "value" after successful conversion is greater than 0 Return the "value" Else

## CSP1150 Assignment 2 Aaron Martin - 10526100

Print "Enter number greater than or equal to 0" Continue while loop

Define "input\_something" function (receives "prompt")

While the loop remains True

Retrieve user input and store into "value"

Call "strip" function on "value" to remove white space from start and end.

If the "strippedValue" is not an empty string

Return the "strippedValue"

Else

Print "Invalid input, please try again" Continue while loop

Define "save\_data" function (receives "data\_list")

Open the "data.txt" file in write mode and store in variable "f"

Write "data\_list" to "data.txt" is JSON format

Close the file