Pseudocode for Individual Programming Project: Would you Rather Game

Main Program:

Try to:
    Open the file named 'data.txt' in read mode
    Load the json data from file into the data list variable
    Close the file

Except if any exception occurs:
    Set data variable to an empty list variable

Display 'welcome' message

Endless loop
    Display list of options to user
    Prompt user for their choice and convert string to lowercase

    If choice is 'a'
        Set question_dict to an empty dictionary
        Display 'instructions' message

        Invoke input_something and set the returned string to key 'option_1' in question_dict removing any question marks

        Invoke input_something and set the returned string to key 'option_2' in question_dict removing any question marks

        Endless loop
            Invoke input_something and set returned string to mature_input
            and then convert mature_input to an upper-case string

If mature_input is 'Y'
Set key 'mature' in question_dict to True
Break out of loop

However, if mature_input is 'N'
Set key 'mature' in question_dict to False
Break out of loop

Otherwise
Display 'invalid input' message (Loop prompts again)

Set key 'votes_1' in question_dict to 0
Set key 'votes_2' in question_dict to 0

Add question_dict to end of data list
Invoke save_data and feed it the data list
Display 'question added' message

However, if choice is 'l'
And if data list is empty
Display 'no questions saved' message

Otherwise,
Display 'list of questions' message
Loop through each question in data list
Display index (plus 1) and the value of 'option_1' and 'option_2' keys for each question, separated by a '/'

However, if choice is 's'
Set no_match to True
If data list is empty
Display 'no questions saved' message

Otherwise,

Invoke input_something and convert the returned string into lowercase and store in search_term

Display 'search results' message

Loop through each question in data list
If search_term is in the question's 'option_1' or 'option_2' key value converted to lowercase
Print index (plus 1) and the matched key options values
Set no_match to False

If no_match is True
Display 'no matches found' message

However, if choice is 'v'
And, if data list is empty
Display 'no questions saved' message

Otherwise,
Invoke input_int and set view_number to the returned integer then subtract 1 from view_number

If view_number is greater than data list length or less than 0
Display 'invalid question number' message

Otherwise,
Display would you rather message
Display selected questions' 'option_1' key value
Display selected questions' 'option_2' key value

If selected question mature key value is True
Display 'warning mature audience only' message

If selected question keys 'votes_1' and 'votes_2' values equal 0
Display 'no votes' message
Otherwise,
Display 'votes_1' and 'votes_2' values in user-friendly format

However, if choice is ‘d’

And, if data list is empty

Display ‘no questions saved’ message

Otherwise,

Invoke input_int and set question_to_delete to the returned integer
then subtract 1 from question_to_delete
If question_to_delete is greater than data list length or less than 0

Display ‘invalid question number’ message

Otherwise,

Delete question_to_delete in data list
Invoke save_data and feed it the data list
Display ‘deleted question’ message

However, if choice is ‘q’

Display ‘goodbye’ message
Break out of loop

Otherwise,

Display ‘invalid choice’ message

Functions:

Define 'input_int' function (receives "prompt")
    Endless loop
        Prompt user for input with prompt
        Try to convert input into an integer and store as user_input
        Return user_input

        Except a value error
            Display 'invalid input' message for not being an integer

Define 'input_something' function (receives "prompt")
    Endless loop
        Prompt user for input with prompt
        Strip input of whitespace and store as user_input

        If user_input is an empty string
            Display 'input something' message
        Otherwise,
            Return user_input

Define 'save_data' function (receives "data_list")
    Open the file named 'data.txt' in write mode
    Convert the data_list to json and dump into the file indented by 4
    Close the file