Cecilia Cuffe

CPT187 – C02

Chapter 9 - Program 8

# **REQUIREMENTS**

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| **Date Submitted:** | 3/7/2023 |
| **Application Title:** | Contact Info |
| **Purpose:** | Create and pickle a dictionary of contact information containing names and email addresses. |
| **Program Procedures:** | Start the program. Select an option from the menu. Follow prompts from program. |
| **Algorithms, Processing, and Conditions:** | 1. Import pickle library 2. Program calls main() function 3. File object is created in read mode 4. If dictionary exists, data is loaded 5. Otherwise, empty dictionary is created 6. Dictionary is passed to choice function 7. User is asked to choose between create, find, update, delete, or quit options 8. If create, dictionary is passed to create function 9. File is opened in writing mode 10. User enters key 11. User enters value 12. Key-value pair are added to dictionary 13. If read, dictionary is passed to read function 14. User enters name 15. If name is in dictionary keys, email is printed 16. If not, error message is shown 17. If update, dictionary is passed to update function 18. If name is in dictionary keys, user is prompted to enter new email 19. If not, error message is shown 20. If delete, dictionary is passed to delete function 21. User enters name 22. If name is in dictionary keys, entry is deleted 23. If not, error message is printed 24. If quit, program quits and data is pickled. |
| **Notes and Restrictions:** | Contacts.dat must be in the same file directory. |
| **Comments:** | This program makes use of the pickle library |

# **USE CASE**

1. User starts the program
2. Program prompts user to choose from menu
3. User selects option from menu
4. Program prompts user to enter data
5. User enters data
6. Program asks if user would like to continue
7. User makes another menu selection or chooses to quit