

## **Programming Project 2**

### **Problem 5**

#### **Immigration Database**

#### **Created by**

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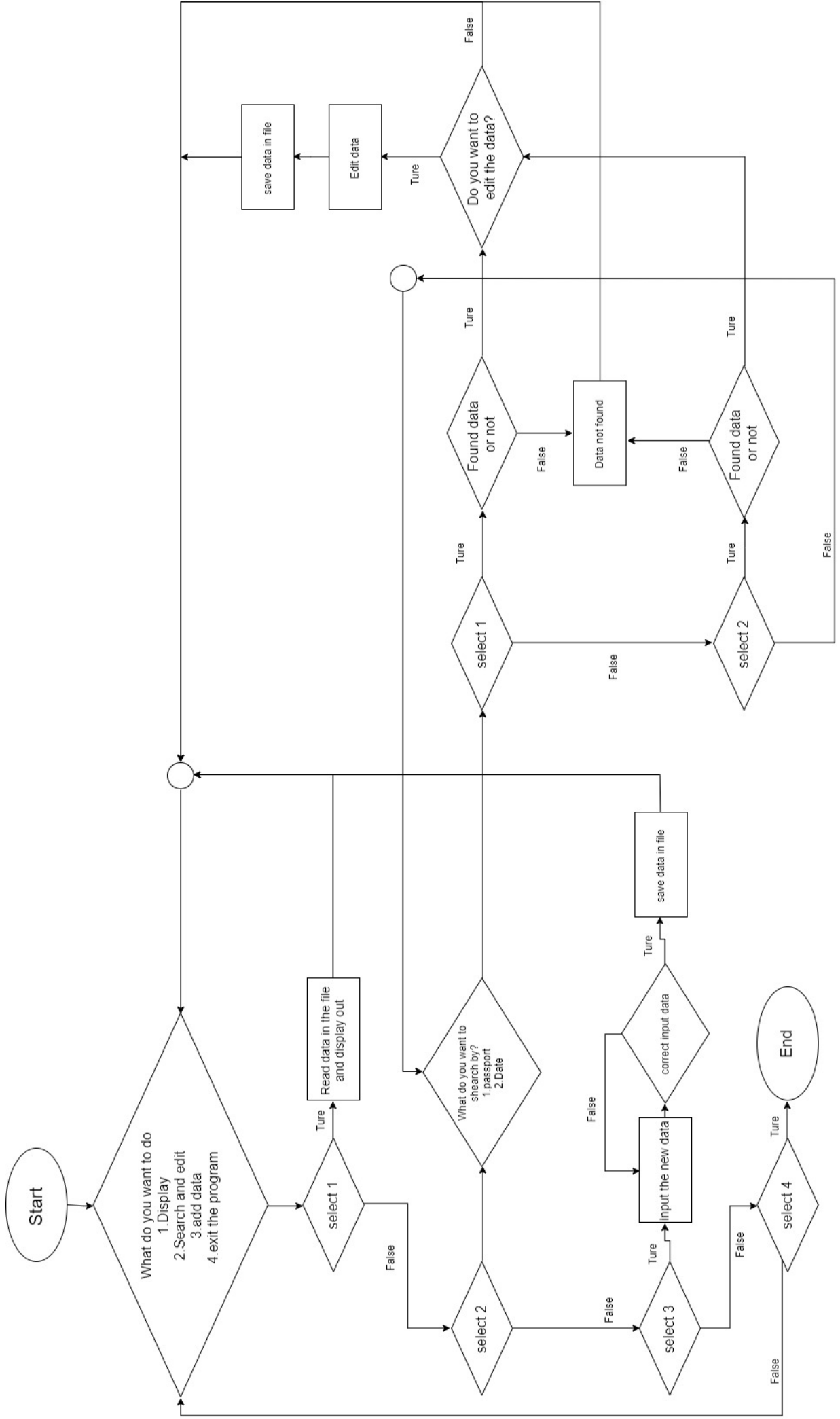
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Section : C

#### **Presented to**

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Name of Module	General Description	Function
- ImmigrationDatabase.c	-use to display the function that user can select. 1.Display Data 2.Search and edit Data 3.Add Data 4.Exit the program	main
-option.c	-input the data -call validate function to check the data that you input -use to search the data -if you the data ask you do you want to edit? -if correct add data keep it in file	AddData
		rule
		checkPassport
		checkDateInput
		checkName
		checkAddressBangkok
		checkFirstVisit
		checkVisa
		keepData
		searchData
		searchByPassport
		searchByDate
		passportSearch
		dateSearch
		checkPassportRepeat
-validate.c	-check data that you input are all correct or not	editData
		DataEditFunction
		editNewData
		AddNewData
		checkSpecialString
		checkCountry
		checkDateMonthYear
		validateDate
		checkPostalCode
		checkHouseNumber

		validateStreet
-fileoption.c	-Display all data in file	displayAllData
	-Display the search data	howManyData
	-find amount data in file	SearchDataDisplay
-dateFunctions.c *Created by Sally Goldin*	-use to find the date that you input be in the past	dateCompare

## Structure of your database file

I use text file to keep the data.

Each object is a single lines and separated by space bar.

Structure Data in file :

Passport Date HouseNumber StreetName LaneName PostalCode FirstVisit VisaLength Name

### Detail of data

**Passport ==** size of this data is 20 if input more than 20 it will give you invalid. At position 1an2 must be name of country. At position 3 must be dash.

**Date ==** size of this data is 15. From DD/MM/YYYY in case you input more than 10 it will give you invalid. And date must be in the past.

**HouseNumber ==** size of this data is 15. You can input only digit ex 12/12, 23.

**StreetName ==** size of this data is 30. You can input any digit and number but not input special string

**LaneName ==** size of this data is 30. You can input any digit and number but not input special string

**PostalCode ==** size of this data is 10. But if you input more 5 it will give you invalid. And postal code must be start with 10.

**FirstVisit ==** size of this data is 2. You can input only Y (Yes), N (No), U (Unknow).

**VisaLength ==** You can input any number. You must input number more than 9 but less than 365 (some year can less than 366).

**Name ==** size of this data is 30. You can input digit, string or apace.

**Sample Data :**

TH-123456789 12/12/2543 12 fhfhfh fhfhfh 10140 Y 100 FON

TR-1234567890 03/12/2553 12 kdjsfn skdjfn 10140 Y 123