Assessment Cover Sheet

This Assessment Cover Sheet is only to be attached to hard copy submission of assessments.

ASSESSMENT DETAILS

Unit title	Technical Software Development	Tutorial /Lab Group	Lab 2 Group 1	Office use only
Unit code	SWE 20004	Due date	10/09/2021	
Name of lecturer/tutor	Chai Pui Ching			
Assignment title	Assignment Task 1			Faculty or school date stamp

STUDENT(S) DETAILS

	Student Name(s)	Student ID Number(s)
(1)	Sze XiJie	101222928
(2)	Chin Kai Lun	101221815
(3)	Chen Jun Yao	101222889
(4)	Ooi Yik Quan	101230222
(5)		
(6)		

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Student signature/s

I/we declare that I/we have read and understood the declaration and statement of authorship.

(1)	Sze XiJie	(4)	Ooi Yik Quan
(2)	Chin Kai Lun	(5)	
(3)	Chen Jun Yao	(6)	

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SWE20004

Assignment - Task 1 Contribution Sheet

Lab Group: [Group 1 / Group 2]

Team Leader: Sze XiJie

Student Name	Student ID	Tasks – Work undertaken to complete the group assignment	% contribution
Sze XiJie	101222928	Menu and sqlite3 (database)	25%
Chin Kai Lun	101221815	Candidate ID and Name	25%
Chen Jun Yao	101222889	Option 2 (Viewing Candidate)	25%
Ooi Yik Quan	101230222	Randomised Division	25%

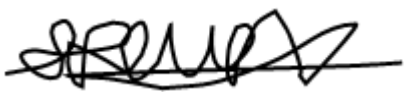
Signatures for approval

Each group member must sign this sheet in acknowledgement that he/she has read and accepted the contribution stated above.

Name: Sze XiJie

Name: Chin Kai Lun

Name: Chen Jun Yao

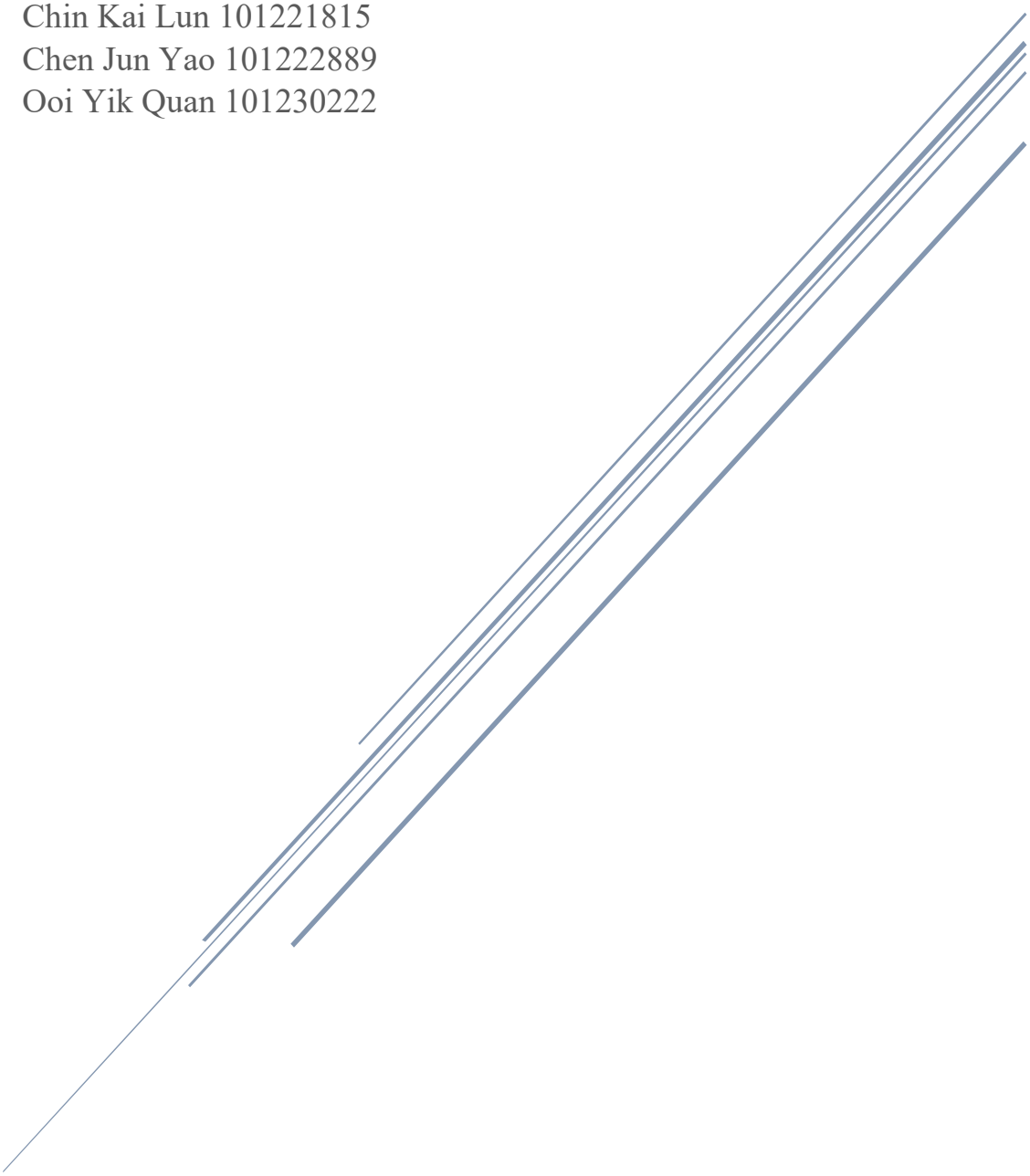


Name: Ooi Yik Quan

Project Brief

Project Title: Election-Voter
Lab Group: Lab 2 Group 1
Project Team Name: Amadeus
Project Members:

- Adam Sze XiJie 101222928 (Group Leader)
- Chin Kai Lun 101221815
- Chen Jun Yao 101222889
- Ooi Yik Quan 101230222



Swinburne University of Technology Sarawak
SWE 20004 Technical Software Development

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1.Report

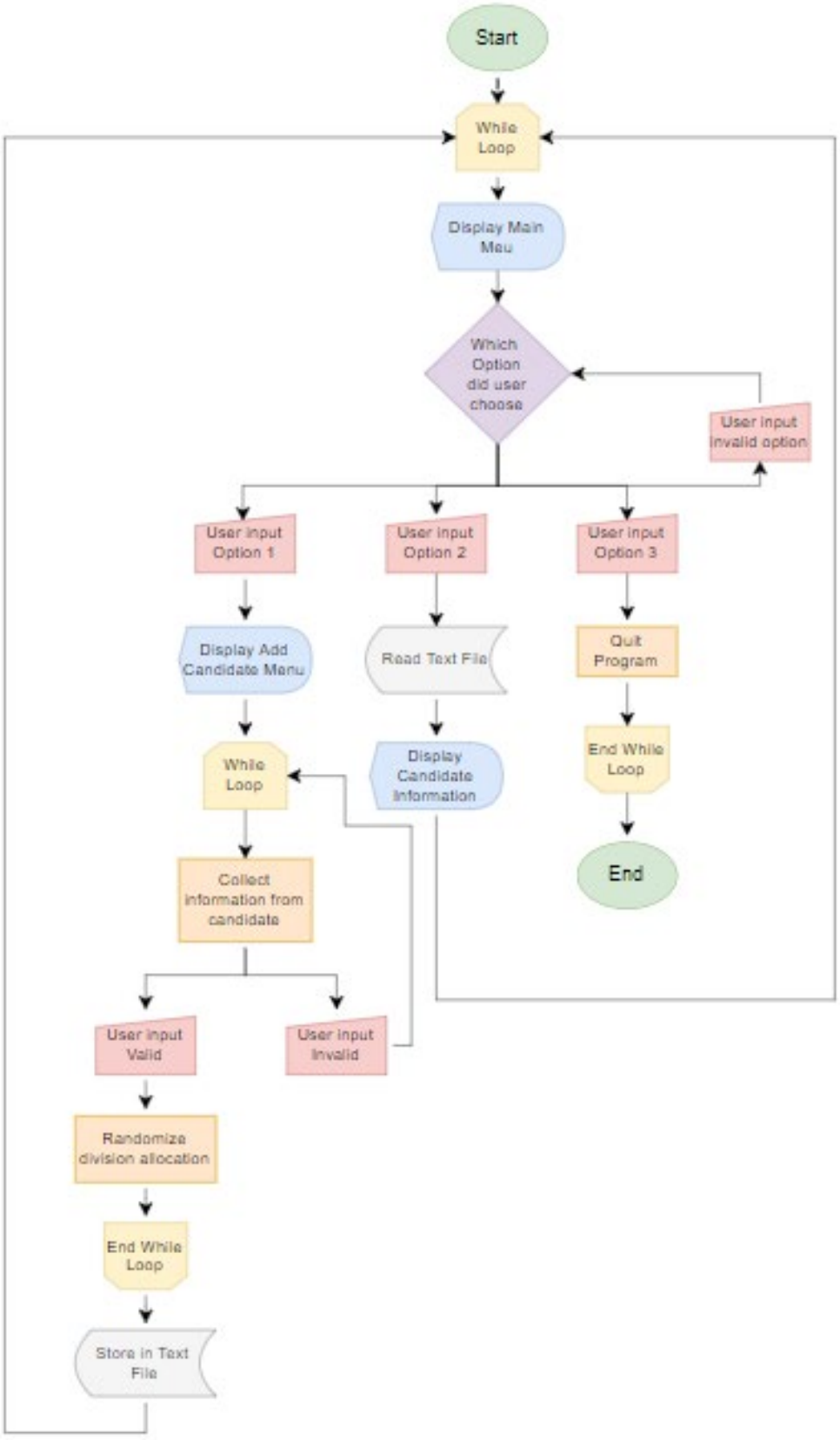

Figure 1: Flowchart for Candidate Menu

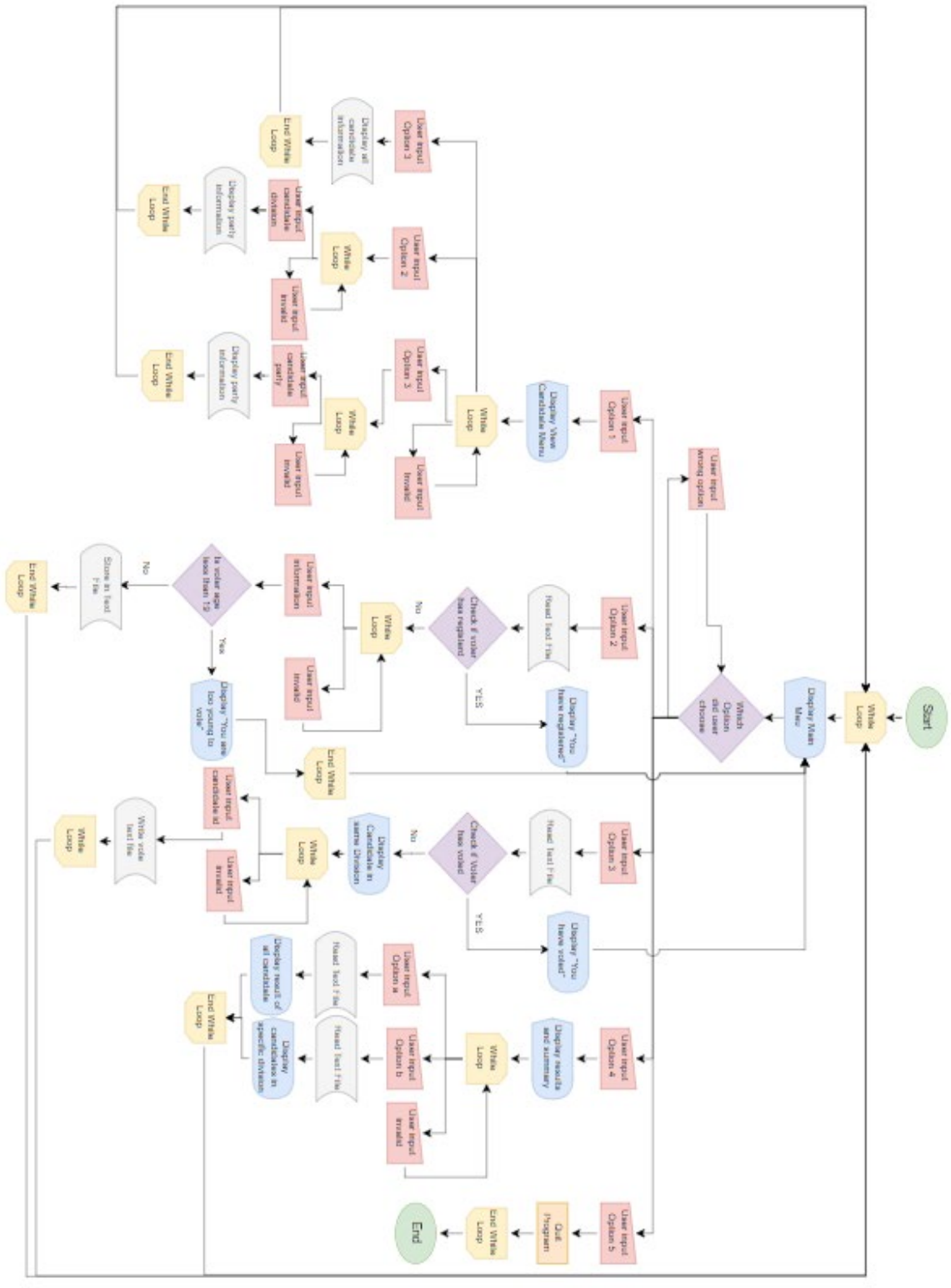

Figure 2: Flowchart for Voter Menu

2. Program Explanation

2.1. Menu (Sze XiJie)

The menu for the program created allows the user to re-enter their input when they have entered an invalid input. The text that is displayed on the console will also refresh so that the console will not be too clustered with previously displayed text.

2.2. Candidate and Party Verification (Chin Kai Lun)

The candidate verification task is to allow the user to enter their name. Then the program will validate the users input to make sure that the user input is valid. Next, the candidates will be assigned random party names which will then be used for their candidate id by getting the first 3 letters of the party's name followed by 2 digits.

2.3. Division Categorising (Ooi Yuk Quan)

For "Division Categorising", it is to randomise each division from 1 to 4 for the candidate to key in their name and store it in a randomised division, which the candidate is not allowed to choose themselves the division that they want. After randomising the division to store the candidates' data, each division only allows a maximum of 3 candidate profiles or data inside the division where it is stored. Therefore, if there are 3 candidates in a particular division, this division will not store any more candidates' data. The program will simply store the candidate into a different division. When all divisions are full, the program will say that "All divisions are full currently." or "The registration for candidates is over."

2.4. Viewing Candidate Information (Chen Jun Yao)

Option number 2 of the menu will first read data from the database file. The information displayed will be in ascending order where division 1 is first displayed followed by division 2, 3 and lastly division 4. If the database is empty, the menu will display a text notifying the user that there is currently no candidates.

2.5. Sqlite3 (Sze XiJie)

Sqlite3 is a database for which we store in our candidate information. This replaces the need of using a text file as the data will be stored in a database. The database is first created in the c: drive with a folder name called StoreData. With that, the program will create a db file in that folder to store the data. To implement sqlite3, all the tasks done by each member will be combined and some changes will be made.

Below is the figure for testing:

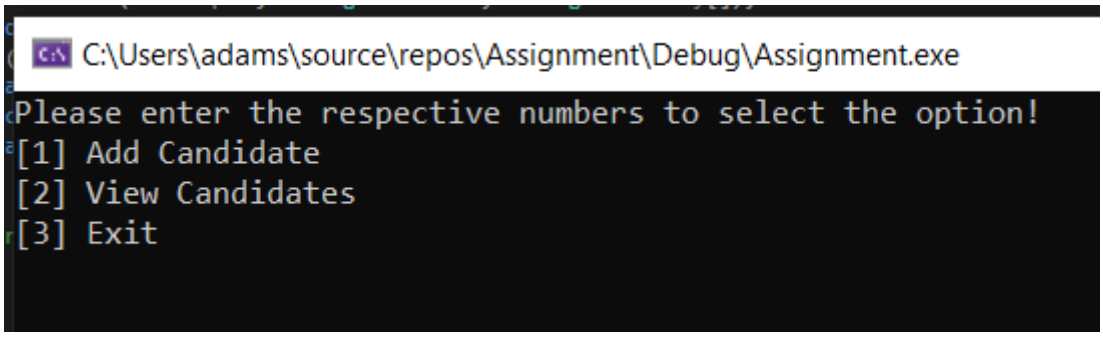

Figure 3: Main Menu

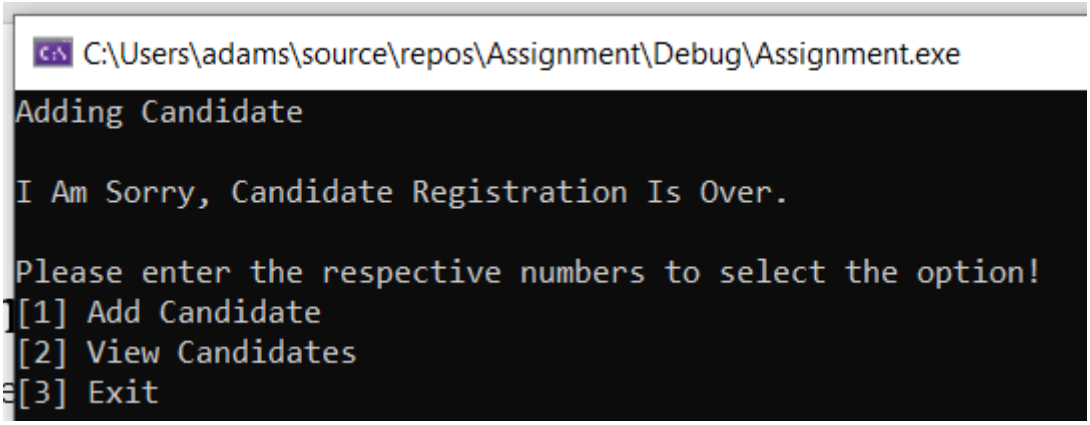

Figure 4: When candidate is full

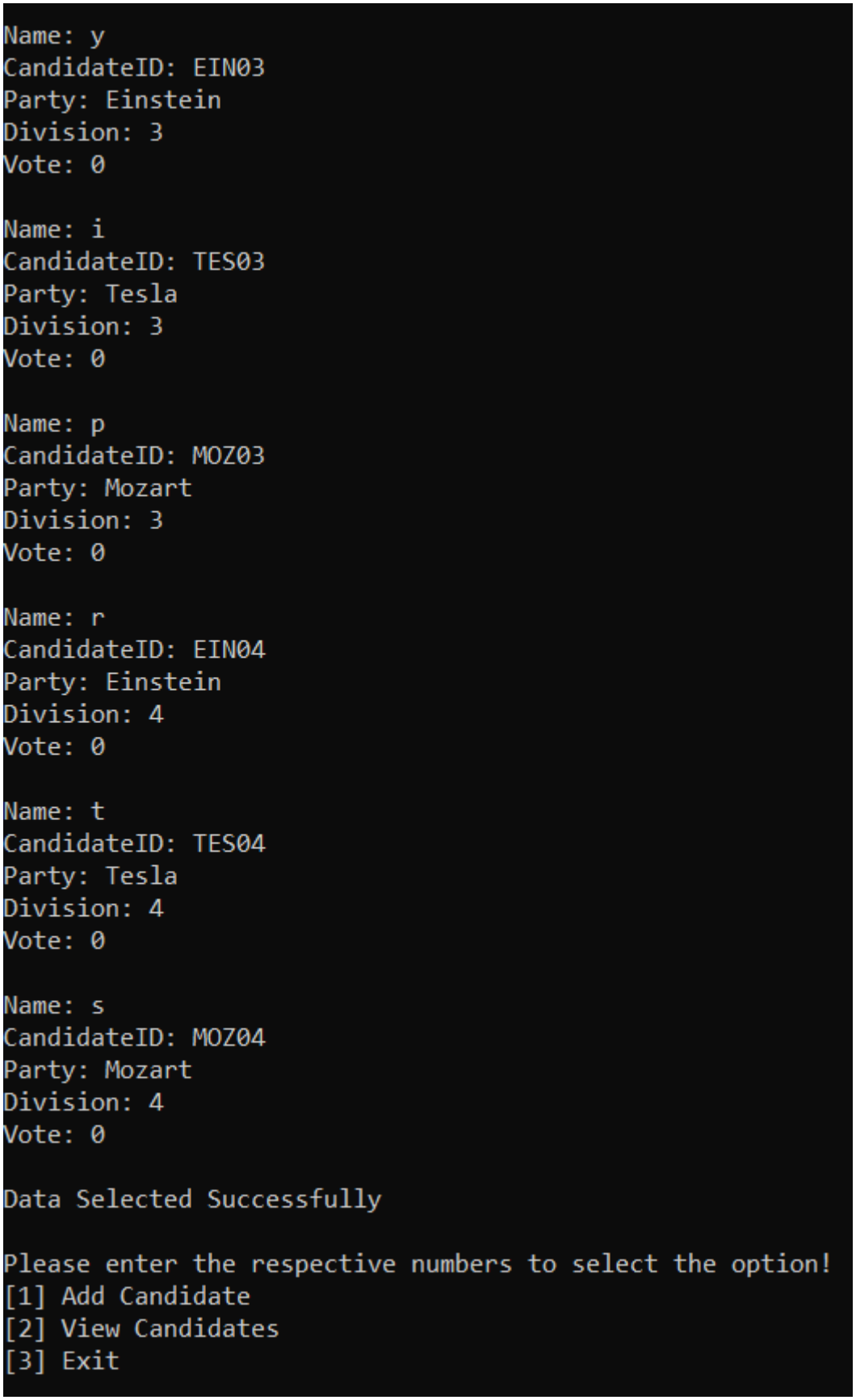

Figure 5: Viewing Candidates Menu

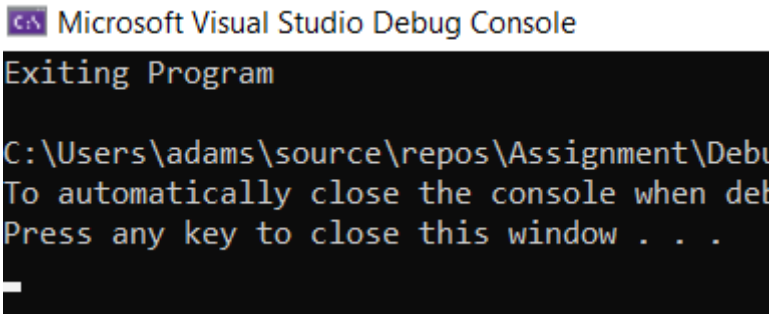

Figure 6: Exiting Program

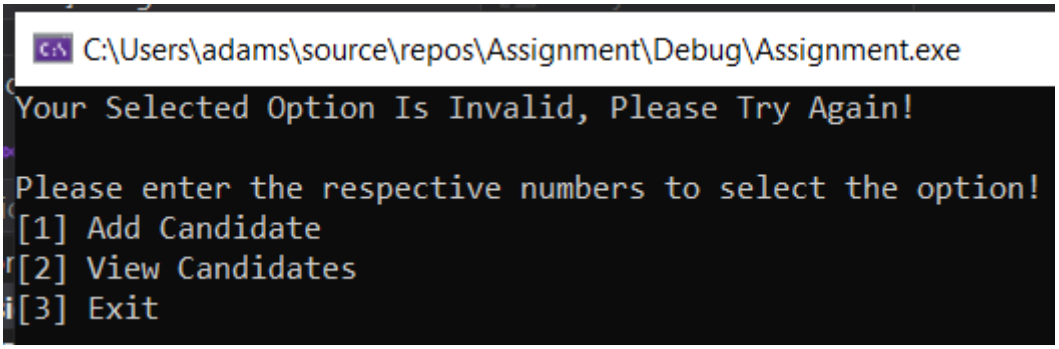

Figure 7: When User Input Invalid Option

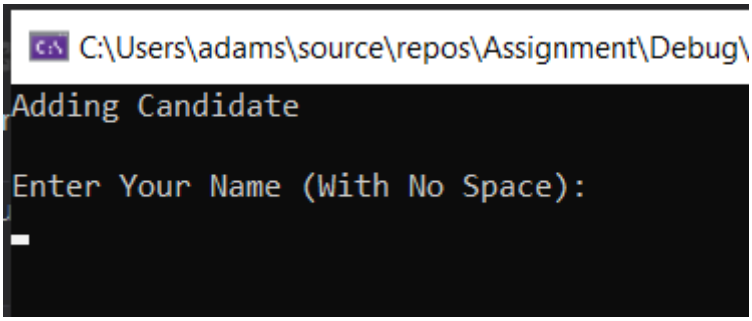

Figure 8: Adding Candidate Menu

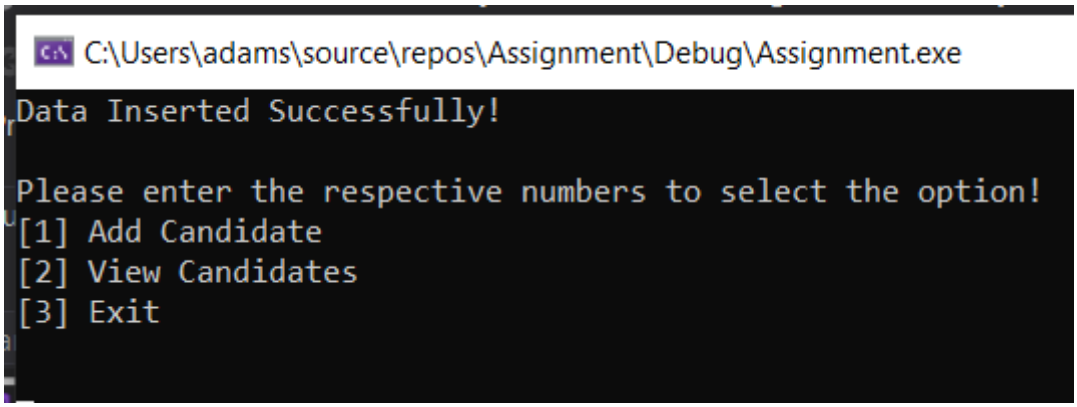

Figure 9: Adding Candidate Successful

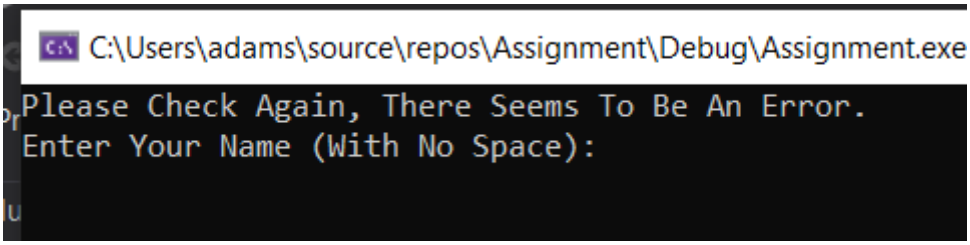

Figure 10: Input Error for Adding Candidate

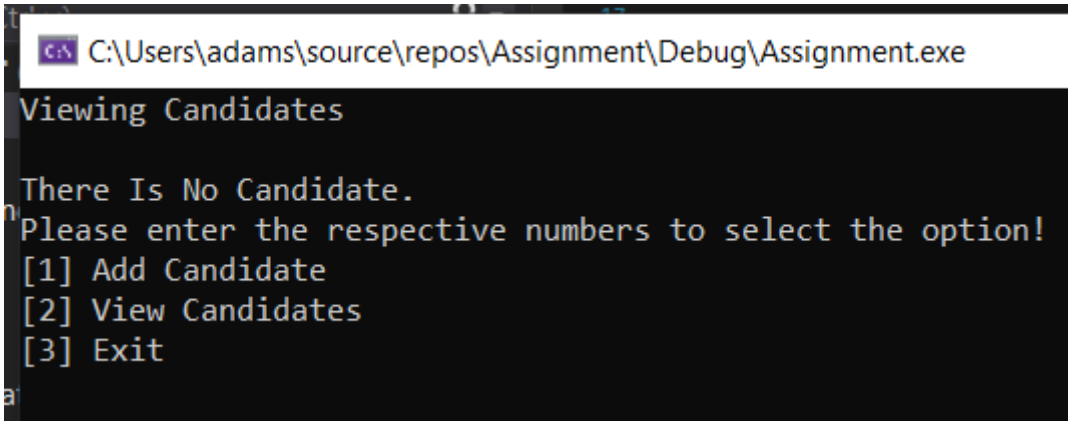

Figure 11: Viewing Candidates When No Candidate Available