# Computer Programming Project

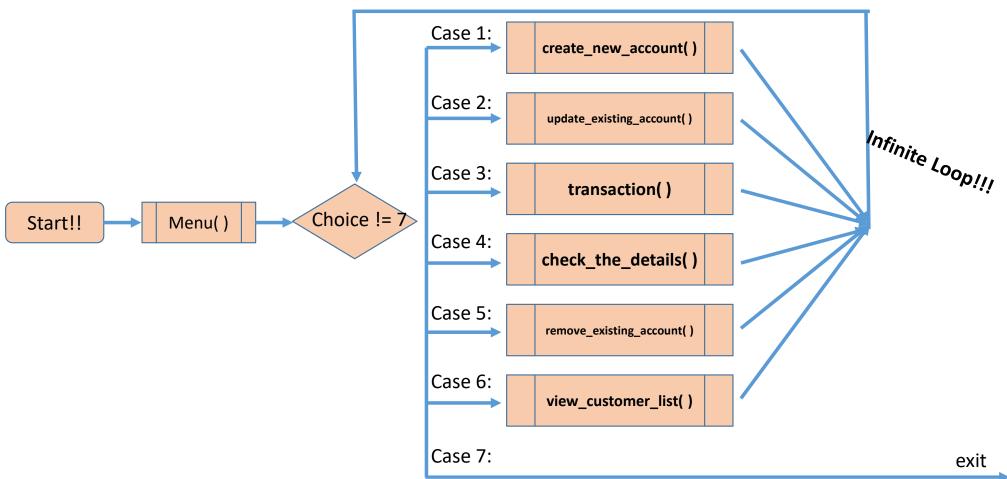
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Computer Programming 배기웅

### Overall flowchart



**Computer Programming** 

### Implementation of each functions

```
//1. menu : 어떤 함수를 실행할 것인지 안내
lvoid menu() {
```

#### 1. void menu ()

: provides a selection that the user can choose from.

There are selections from 1 to 7, and if user enter 7, the program exits

```
// 2. create_new_account : 정보를 입력한다.
|void create_new_account(FILE* fp, int number_of_customers, struct Customer *c) {
```

2. void create\_new\_account (File\* fp, int number, struct Customer\* c)

: if user enter 1, this method is executed.

- 1) File open
- 2) Enter the information(name, date of birth, age, citizenship number, address, phone number, account number, amount to deposit, type of deposit
- 3) Save them in a Structure array, and text file

III datis - Windows 메모장

Customer 2

Customer 4

Customer 5

파일(F) 편집(E) 서식(O) 보기(V) 도움말(H)

1 | 1 | 1 | 1 | 11 | 1 | 1 | 11 |

11 | 22 | 2 | 2 | 2 | 22 | 2 | 2 | Customer 3 2 | 23 | 3 | 3 | 3 | 3 | 3 | 3 |

4 | 4 | 4 | 4 | 4 | 4 | 44 | 4 |

5 | 5 | 5 | 5 | 5 | 55 | 5 | 5 |

## Implementation of each functions

```
//3. update_existing_account : 기존 회원의 정보를 변경한다.
Jvoid update_existing_account(FILE* fp, int number_of_customers, struct Customer* c) {
3. update existing account(File* fp, int number, struct Customer* c)
: if user enter 2, this method is executed.
 1) File open
```

- 2) Enter the index number of particular customer that user want to edit
- 3) Edit the information(new address, new phone number)
- 4) Save them in a Structure array, and a text file
- 5) fclose

```
//4. transaction : deposit and withdraw money to and from a customer account
void transaction(FILE* fp, int number_of_customers, struct Customer* c) {
```

#### 4. transaction(File\* fp, int number, struct Customer\* c)

- : if user enter 3, this method is executed.
- 1) File open
- 2) Enter the index number of particular customer that user want to edit
- 3) Enter the type of deposit(deposit or withdraw?)
- 4) Enter the amount to deposit
- 5) Transact the amount of money by using structure array
- 6) Save them in a text file
- 7) fclose

### Implementation of each functions

lvoid check\_the\_details(int number\_of\_customers, struct Customer\* c) {

#### 5. check\_the\_details(int number, struct Customer\* c)

: if user enter 4, this method is executed.

- 1) Enter the index number of particular customer that user want to check the details
- 2) Display information stored in structure arrays
- 3) If customer's type of deposit is "saving", show one's interest (22781512 -> 1+2 = 3%)

void remove\_existing\_account(FILE\* fp, int number\_of\_customers, struct Customer\* c) // delete a customer account

#### 6. remove\_existing\_account(File\* fp, int number, struct Customer\* c)

: if user enter 5, this method is executed.

- 1) File open
- 2) Enter the index number of particular customer that user want to delete(If the number is bigger then the number of customers, tell user to re-enter it)
- 3) Remove the customer's information in structure array by using memcpy() and memset()
- 4) Save them in a text file
- 5) fclose

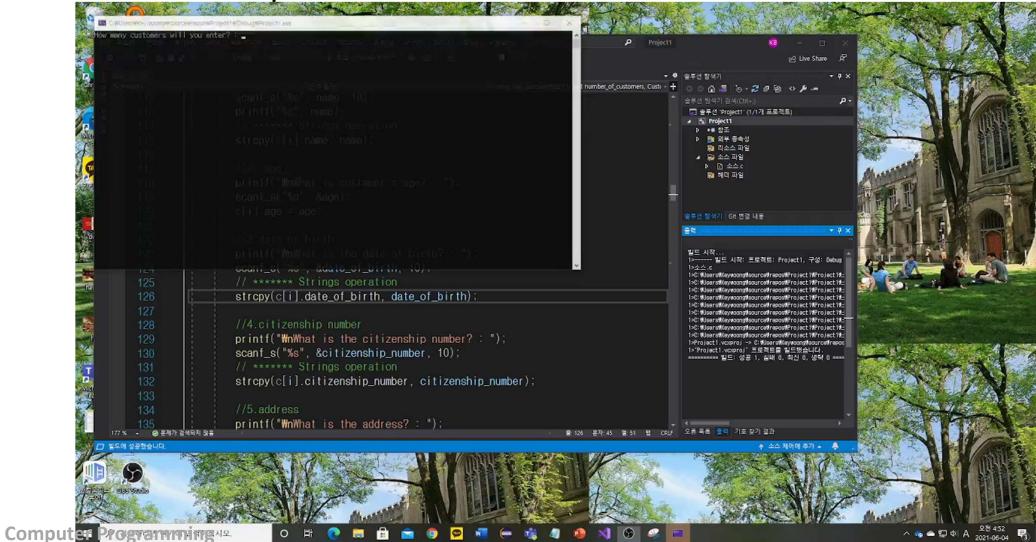
#### Ivoid view\_customer\_list(int number\_of\_customers, struct Customer\* c) {

#### 7. view\_customer\_list(int number, struct Customer\* c)

: if user enter 6, this method is executed.

- 1) File open (mode is "r+t")
- 2) Call the contents stored in text file by using putchar()
- 3) Print them in the console window
- 4) fclose

Final Output



### Difficulties I faced

#### 1. C2491 : cannot define dllimport function

```
□# include <stdio.h>

[# include <string.h>

# define DLLImport __decIspec(dIlimport)
```

#### 2. Using strcpy method

```
//3.date of birth
printf("\mwhat is the date of birth?: ");
scanf_s("\s", &date_of_birth, 10);
// ****** Strings operation
strcpy(c[i].date_of_birth, date_of_birth);
```

c[i].date\_of\_birth = date\_of\_birth (X)

#### 3. Using atoi method

```
printf("\nfor loop");
printf("\makebase");
int a = strlen(account_number);
printf("\mathbb{m} strlen");
printf("\n >>>");
printf("%c", account_number[a-1]);
printf("\nbefore atoi");
int bbb = atoi(account number[a-1]);
printf("%d", bbb);
m[i][0] = bbb;
printf("\n atoi1");
m[i][1] = atoi(account_number[a - 1]);
printf("\n atoi2");
interest = m[i][0] + m[i][1];
printf("\ninterest");
c[i].interest = interest;
```

The last of char array is '\0'