# Personal Diary Management System

It's a convenient software for daily use. By using this software, you can easily manage your daily schedule, short notes, and all your client information. All information will store in a file using encryption so that, you don't need to worry about your privacy. Without your consent, no one will be able access your personal data. It's easy to use because of its friendly and clean interface.

## Contents

Pers	on	al Diary Management System	1
How	to	run:	2
Key	Fea	atures	2
1.		Notebooks	2
	a.	Add New Notes	2
	b.	View Notes	3
	c.	Edit Notes	3
	d.	Delete Notes	4
2.		Daily Schedule	4
	a.	Add New Schedule	4
	b.	View Schedule	5
	c.	Edit Schedule	5
	d.	Delete Schedule	5
3.		Client Information	6
	a.	Add New Client	6
	b.	View Client Information	7
	c.	Edit Client Information	7
	d.	Delete Client Information	7
4.		Security Settings	8
	a.	Update Password	8
	b.	Update Security Question	8
5.		About Software	9
6.		UI Design	9
	a.	Welcome Screen	9
	b.	Header Screen	9
	c.	Exit Screen	. 10
Usa	ge (	C Standard Function	. 10
Sour	ce	Code:	. 11
Tear	n li	nfo·	. 76

#### How to run:

If user open this program first time, program will ask to set new username, password and security questions.

```
It seems that you have opened this program for the first time.
You need to set a user name and a password first;
then, you can use this program.
Press any key to continue:
```

If user open this program next time, it will ask user to verify username and password.

```
Please Verify your Identity:
Enter Your User Name: joy
Enter Your Password: ***
```

In verification, password will not be shown.

## **Key Features**

#### 1. Notebooks

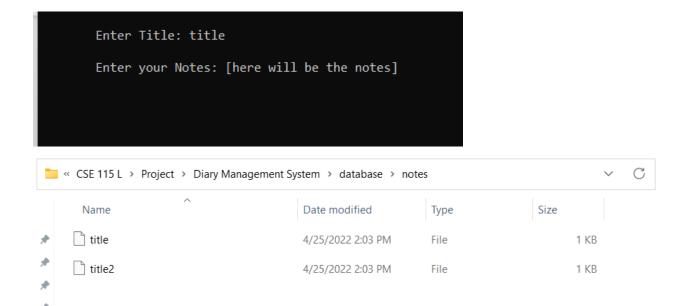
This function is for managing your personal notes. Here we have four options. The first one is for adding new notes, second one is for viewing added notes, third one is for editing existing notes, and the last one for deleting previously added notes.

```
=> 1. Add New Note
=> 2. View Note
=> 3. Edit Note
=> 4. Delete Note
=> 5. Exit

Now Enter Command: _
```

## a. Add New Notes

In this option, user will input two data. One for title and another one for notes. The notes will be saved in a file. The title will be used as a file name and the notes will be stored in this file with encryption and all the notes' file will be stored in a single specific folder.



b. View Notes

Here, user just needs to enter the title of the notes which was previously added. If the given title is available in database, then the console will show the notes by decrypting stored data.

```
For opening your notes please enter Title: title

Notes: [here will be the notes]

Press any key to continue...
```

#### c. Edit Notes

It's an interesting feature that can edit user's previously added notes. First, it will display the existing notes that, user want to edit. Then, it will ask for new data that, user want to change. After that console will ask for a confirmation and an identity verification will be displayed.

```
For opening your notes please enter Title: title

Previous Notes: [here will be the notes]

Enter your New Notes: [here will be the new notes]

Are you sure you want to edit your notes?(Y/N):
```

#### d. Delete Notes

This option is specifically used for deleting previously added notes. User will be asked for the title only. Console will show the notes and ask for a confirmation.

```
For deleting your notes please enter Title: title

Notes: [here will be the notes]

Are you sure you want to delete this notes? (Y/N):
```

# 2. Daily Schedule

Daily schedule is used for user's daily time management necessities. Its features are given below.

```
=> 1. Add New Schedule
=> 2. View Schedule
=> 3. Edit Schedule
=> 4. Delete Schedule
=> 5. Exit

Now Enter Command: __
```

#### a. Add New Schedule

In this feature, user can easily add daily time schedule for meetings, works etc. User will be asked to enter date, time, person name, place, duration and short notes. Schedule will be stored in a file named by the dates with encryption.

```
For add new schedule please enter the date(DD-MM-YYYY): 26-04-2022

Enter Time(HH:MM): 13:00

Enter Person Name: SfM1

Enter Place: NSU Lib605

Enter Duration: One and half hour

Enter Short Notes: Project submission

Your Schedule saved successfully.

Press any key to continue...
```

## b. View Schedule

This feature will display all the schedule according to dates. It will ask user to enter the date only.

```
For viewing your schedule, please enter the date(DD-MM-YYYY): 26-04-2022

Schedule for this date:
Time: 13:00
Person: SfM1
Place: NSU Lib605
Duration: one and half hour
Notes: Project submission

Press any key to continue..
```

#### c. Fdit Schedule

Edit Schedule is used for editing existing time schedules which are added by the user previously. User need to enter whole data again. Then, console will ask for the confirmation.

```
For editing your schedule, please enter the date(DD-MM-YYYY): 26-04-2022

Previous schedule for this date:
Time: 13:00
Person: SfM1
Place: NSU Lib605
Duration: one and half hour
Notes: Project submission

Now Enter new schedule:
Enter Time(HH:MM): 11:20
Enter Person Name: SfM1
Enter Place: NSU NAC-992
Enter Duration: One and half hour
Enter Short Notes: Regular class
Are you sure to edit this schedule?(Y/N): __
```

#### d. Delete Schedule

This option is used for deleting user's previous schedule by date. Console will ask for confirmation and identity verification.

```
For viewing your schedule, please enter the date(DD-MM-YYYY): 26-04-2022

Schedule for this date:
Time: 13:00
Person: SfM1
Place: NSU Lib605
Duration: one and half hour
Notes: Project submission

Are you sure you want to delete this Schedule? (Y/N):
```

## 3. Client Information

This is the most detailed feature in this whole software. It contains the features given below.

```
=> 1. Add New Client
=> 2. View Client Information
=> 3. Edit Client Information
=> 4. Delete Client Information
=> 5. Exit

Now Enter Command: _
```

#### a. Add New Client

This feature gives user ability to add new clients by their names. Also, adds details such as, profession, phone number, E-mail, office address, home address and short notes. All the information will be sorted by their names with encryption.

```
Please enter your client Name: Atik

Profession: Doctor

Phone Number: 01*******

E-Mail: atik@gmail.com

Office Address: Bluelight Hospital, Baridhara Dhaka

Home Address: Bashundhara R/A

Short Notes: Cardiologist

Client Information saved successfully.

Press any key to continue....
```

#### b. View Client Information

In this feature console will display client details according to client names.

```
For viewing information, please enter your client name: Atik

Profession: Doctor

Phone Number: 01*******

E-Mail: atik@gmail.com

Office Address: Bluelight Hospital, Baridhara Dhaka

Home Address: Bashundhara R/A

Short Notes: Cardiologist

Press any key to continue...
```

#### c. Edit Client Information

If user want to edit any client information, this option will help to do that. User can edit a specific field or the whole information by some simple commands. At the end, console will ask for confirmation and identity verification.

```
For viewing information, please enter your client name: atik
Profession: Doctor
Phone Number: 01*****
E-Mail: atik@gmail.com
Office Address: Bluelight Hospital, Baridhara Dhaka
Home Address: Bashundhara R/A
Short Notes: Cardiologist
Which information do you want to edit?
=> 1. Profession
=> 2. Number
=> 3. E-Mail
=> 4. Office Address
=> 5. Home Address
=> 6. Short Notes
=> 7. Whole Information
=> 8. Cancel
Enter Command:
Enter E-Mail: atik01001@gmail.com
Are you sure to edit this information?(Y/N):
```

#### d. Delete Client Information

This option is useful for deleting existing client information. Console will ask user for confirmation and verification after entering the client's name.

```
For deleting information, please enter your client name: atik

Profession: Doctor
Phone Number: 01*******
E-Mail: atik@gmail.com
Office Address: Bluelight Hospital, Baridhara Dhaka
Home Address: Bashundhara R/A
Short Notes: Cardiologist

Are you sure to delete this client information?(Y/N):
```

## 4. Security Settings

Here, user can manage security settings such as, change password and security question.

```
=> 1. Update Password
=> 2. Update Security Question
=> 3. Exit

Now Enter Command:
```

## a. Update Password

This option is used for changing the old password with the new one. First console will ask for the identity verification. Then, it will ask for new password and security questions.

```
Enter your User Name(no space, limit 10): joy
Enter New Password(limit 20, no space): joy

Confirm New Password(limit 20, no space): joy

In case you forget your password:

Whats your favorite color: RED

Whats your favorite sports: CHESS

Whats your favorite pets name: KITTY
```

# b. Update Security Question

Here, console will ask user to verify identity. Then it will ask for new security question.

```
In case you forget your password:

Whats your favorite color: RED

Whats your favorite sports: CHESS

Whats your favorite pets name: KITTY
```

#### 5. About Software

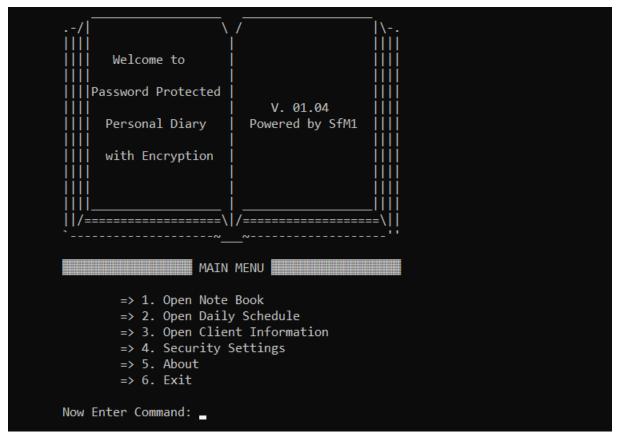
It contains the version details, last update date and credits.

```
Version: 01.07
Last Updated: 24.04.2022
Powered by SfM1
```

## 6. UI Design

We added some interesting asci arts which are given below.

## a. Welcome Screen



## b. Header Screen

MAIN MENU

# c. Exit Screen



# Usage C Standard Function

Function	Header File	Brief Description
fclose	stdio.h	Closes the specified stream.
fgetc	stdio.h	Reads a single unsigned character from the input
		stream.
fgets	stdio.h	Reads a string from the input stream.
fopen	stdio.h	Opens the specified file.
fprintf	stdio.h	Formats and prints characters and values to the
		output stream.
gets	stdio.h	Reads a string from stdin and stores it in buffer.
printf	stdio.h	Formats and prints characters and values to stdout.
remove	stdio.h	Deletes the file specified by filename.
scanf	stdio.h	Reads data from stdin into locations given by arg-list.
strcat	string.h	Concatenates string2 to string1.
strcmp	string.h	Compares the value of string1 to string2.
strcpy	string.h	Copies string2 into string1.
strlen	string.h	Calculates the length of string.
system	stdlib.h	Passes string to the system command analyzer.
getwcd	unistd.h	Copy current working directory into a string
mkdir	unistd.h	Creates folder by folder direction or folder name
getch	conio.h	Reads a single unsigned character from the user

## Source Code:

```
#include <stdio.h>
#include <stdlib.h>
#include <string.h>
#include <conio.h>
#include <unistd.h>
void CHECK_DIRECTORY(void);
void DIRECTORY CREATE(void);
void SET_PASSWORD(void);
void IDENTITY_VERIFY(void);
void UPDATE_PASSWORD(void);
void UPDATE_SECURITY_QUESTION(void);
void RESET_PASSWORD(void);
void ADD_NOTES(void);
void VIEW_NOTES(void);
void EDIT_NOTES(void);
void DELETE_NOTES(void);
void ADD_SCHEDULE(void);
void VIEW_SCHEDULE(void);
void EDIT_SCHEDULE(void);
void DELETE_SCHEDULE(void);
void ADD_CLIENT_INFORMATION(void);
void VIEW_CLIENT_INFORMATION(void);
void EDIT_CLIENT_INFORMATION(void);
```

```
void DELETE CLIENT INFORMATION(void);
void ABOUT(void);
void WELCOME_SCREEN(void);
void HEADER_SCREEN(char menu_msg[]);
void EXIT SCREEN(void);
//global variable
char current directory[1000];
char admin directory[1000];
char filename_admin[] = "\\database\\admin";
char reverse_current_directory[1000];
char folder notes[] = "/database/notes";
char folder_client_information[] = "/database/client_information";
char folder_daily_schedule[] = "/database/daily_schedule";
char notes_directory[1000];
char client information directory[1000];
char daily schedule directory[1000];
int main()
{
  char command;
  CHECK_DIRECTORY();
  system("cls");
  IDENTITY VERIFY();
```

```
while(1){
    system("cls");
    WELCOME_SCREEN();
    HEADER SCREEN("MAIN MENU");
    printf("\n\t\t=> 1. Open Note Book\n\t\t=> 2. Open Daily Schedule\n\t\t=> 3.
Open Client Information\n\t => 4. Security Settings\n\t => 5. About\n\t => 6.
Exit\n\n\tNow Enter Command: ");
    command = getch();
    if(command == '1'){
      while(1){
        system("cls");
        HEADER_SCREEN("NOTE BOOK");
        printf("\n\t\t=> 1. Add New Note\n\t\t=> 2. View Note\n\t\t=> 3. Edit
Note\n\t\t=> 4. Delete Note\n\t\t=> 5. Exit\n\n\tNow Enter Command: ");
        command = getch();
        if(command == '1'){
          ADD_NOTES();
        }
        else if(command == '2'){
          VIEW_NOTES();
        }
        else if(command == '3'){
```

```
EDIT_NOTES();
        }
        else if(command == '4'){
          DELETE_NOTES();
        }
        else if(command == '5'){
          break;
        }
        else{
          printf("\n\tWrong Command!! Press any key to try again..");
          getch();
          continue;
        }
      }
    }
    else if(command == '2'){
      while(1){
        system("cls");
        HEADER_SCREEN("DAILY SCHEDULE");
        printf("\n\t\t=> 1. Add New Schedule\n\t\t=> 2. View Schedule\n\t\t=>
3. Edit Schedule\n\t => 4. Delete Schedule\n\t => 5. Exit\n\n\t => 6.
Command: ");
        command = getch();
        if(command == '1'){
          ADD_SCHEDULE();
        }
```

```
else if(command == '2'){
          VIEW SCHEDULE();
        }
        else if(command == '3'){
          EDIT_SCHEDULE();
        }
        else if(command == '4'){
          DELETE_SCHEDULE();
        }
        else if(command == '5'){
          break;
        }
        else{
          printf("\n\tWrong Command!! Press any key to try again..");
          getch();
          continue;
        }
      }
    }
    else if(command == '3'){
      while(1){
        system("cls");
        HEADER_SCREEN("CLIENT INFORMATION");
        printf("\n\t\t=> 1. Add New Client\n\t\t=> 2. View Client
Information\n\t => 3. Edit Client Information\n\t => 4. Delete Client
Information\n\t => 5. Exit\n\n\t => 5. Exit\n\t => 5.
        command = getch();
```

```
if(command == '1'){
      ADD_CLIENT_INFORMATION();
    }
    else if(command == '2'){
      VIEW_CLIENT_INFORMATION();
    }
    else if(command == '3'){
      EDIT_CLIENT_INFORMATION();
    }
    else if(command == '4'){
      DELETE_CLIENT_INFORMATION();
    }
    else if(command == '5'){
      break;
    }
    else{
      printf("\n\tWrong Command!! Press any key to try again..");
      getch();
      continue;
    }
  }
else if(command == '4'){
  while(1){
    system("cls");
    HEADER_SCREEN("SECURITY SETTINGS");
```

```
printf("\n\t\=> 1. Update Password\n\t\=> 2. Update Security
Question\n\t => 3. Exit\n\n\t => 3. Exit\n\t => 3.
        command = getch();
        if(command == '1'){
          UPDATE_PASSWORD();
        }
        else if(command == '2'){
          UPDATE_SECURITY_QUESTION();
        }
        else if(command == '3'){
          break;
        }
        else{
          printf("\n\tWrong Command!! Press any key to try again..");
          getch();
          continue;
        }
      }
    else if(command == '5'){
      ABOUT();
    else if(command == '6'){
      EXIT_SCREEN();
      break;
    }
    else{
```

```
printf("\n\tWrong Command!! Press any key to try again..");
      getch();
      continue;
    }
  }
}
void CHECK_DIRECTORY(void)
{
  FILE *check_directory;
  int i, j, length_current_directory, length_filename_admin;
  getcwd(current directory, 1000);
  length_current_directory = strlen(current_directory);
  length_filename_admin = strlen(filename_admin);
  strcpy(admin directory, current directory);
  strcat(admin_directory, filename_admin);
  check_directory = fopen(admin_directory, "r");
  if(check_directory == NULL){
    printf("\n\tlt seems that you have opened this program for the first
time.\n\tYou need to set a user name and a password first;\n\tthen, you can use
this program.\n\tPress any key to continue: ");
    getch();
    DIRECTORY_CREATE();
    SET PASSWORD();
```

```
}
  else{
    fclose(check_directory);
  }
}
void DIRECTORY_CREATE(void)
{
  int i, j, temp;
  FILE *create_file_admin;
  for( i = 0; i < strlen(current_directory); i++){</pre>
    if(current directory[i] == '\\'){
      reverse_current_directory[i] = '/';
    }
    else{
      reverse_current_directory[i] = current_directory[i];
    }
  }
  reverse_current_directory[i] = '\0';
  strcpy(notes_directory, reverse_current_directory);
  strcpy(client_information_directory, reverse_current_directory);
  strcpy(daily_schedule_directory, reverse_current_directory);
  strcat(notes_directory, folder_notes);
  strcat(client_information_directory, folder_client_information);
```

```
strcat(daily schedule directory, folder daily schedule);
  mkdir("database");
  mkdir(notes_directory);
  mkdir(client_information_directory);
  mkdir(daily_schedule_directory);
  create_file_admin = fopen(admin_directory, "w");
  fclose(create_file_admin);
}
void SET_PASSWORD(void)
{
  FILE *open_admin;
  char user_name[10];
  char password[20];
  char password confirm[20];
  char color[20];
  char sports[20];
  char pets[20];
  int i;
  open admin = fopen(admin directory, "w");
  if(open admin == NULL){
    printf("\n\tSystem File Missing..");
  }
  else{
```

```
system("cls");
printf("\n\tEnter your new User Name(no space, limit 10): ");
scanf("%s", user name);
getchar();
for(i = 0; i < strlen(user name); i++){</pre>
  fprintf(open_admin, "%c", user_name[i] + 508);
}
fprintf(open admin, "\n");
while(1){
  system("cls");
  printf("\n\tEnter your User Name(no space, limit 10): %s", user name);
  printf("\n\tEnter New Password(limit 20, no space): ");
  scanf("%s", password);
  getchar();
  printf("\n\tConfirm New Password(limit 20, no space): ");
  scanf("%s", password confirm);
  getchar();
  if(strcmp(password, password confirm) == 0){
    for(i = 0; i < strlen(password); i++){</pre>
      fprintf(open admin, "%c", password[i] + 508);
    }
```

```
break;
      }
      else{
         printf("\n\tPassword doesn't match. Press any key to try again: ");
        getch();
         continue;
      }
    }
    system("cls");
    printf("\n\tPassword set successfully.\n\tPress any key to continue: ");
    getch();
    fprintf(open_admin, "\n");
    system("cls");
    printf("\n\tln case you forget your password:\n\n\tWhats your favorite color:
");
    scanf("%s", color);
    getchar();
    printf("\n\tWhats your favorite sports: ");
    scanf("%s", sports);
    getchar();
    printf("\n\tWhats your favorite pets name: ");
    scanf("%s", pets);
    getchar();
```

```
for(i = 0; i < strlen(color); i++){</pre>
      fprintf(open_admin, "%c", color[i] + 508);
    }
    fprintf(open_admin, "\n");
    for(i = 0; i < strlen(sports); i++){</pre>
      fprintf(open_admin, "%c", sports[i] + 508);
    }
    fprintf(open_admin, "\n");
    for(i = 0; i < strlen(pets); i++){
      fprintf(open_admin, "%c", pets[i] + 508);
    }
    system("cls");
    printf("\n\tSecurity Question set successfully.\n\tPress any key to continue:
");
    getch();
    fclose(open_admin);
  }
}
void IDENTITY_VERIFY(void)
{
  FILE *open_admin;
  char user_name[10];
  char user_name_input[10];
```

```
char password[20];
char password input[20];
int i, run = 1, access = 0;
char command, ch = ' ';
open admin = fopen(admin directory, "r");
if(open_admin == NULL){
  printf("\n\tSystem File Missing..Press any key to continue..");
  getch();
}
else{
  fgets(user name, 10, open admin);
  for(i = 0; i < strlen(user_name); i++){</pre>
    user_name[i] = user_name[i] - 508;
  }
  user name[i-1] = '\0';
  fgets(password, 20, open_admin);
  for(i = 0; i < strlen(password); i++){</pre>
    password[i] = password[i] - 508;
  }
  password[strlen(password)-1] = '\0';
  while (run < 4)
    system("cls");
    printf("\n\tPlease Verify your Identity:");
    printf("\n\tEnter Your User Name: ");
```

```
scanf("%s", user_name_input);
getchar();
if(strcmp(user_name, user_name_input) == 0){
  printf("\n\tEnter Your Password: ");
  for(i = 0; i < 20; i++){
    password_input[i] = getch();
    ch = password_input[i];
    if(ch == 13){
      break;
    }
    else{
      printf("*");
    }
  }
  password_input[i] = '\0';
  if(strcmp(password, password_input) == 0){
    printf("\n\n\tACCESS GRANTED..\n\n\tPress Any Key to Continue..");
    getch();
    system("cls");
    access = 1;
    break;
  }
  else{
    printf("\n\tWrong Password. Press any key to try Again..");
    getch();
```

```
system("cls");
          run++;
          continue;
        }
      }
      else{
        printf("\n\tWrong User Name. Press any key to try Again..");
        getch();
        system("cls");
        continue;
      }
    }
    fclose(open_admin);
    if(access == 0){
      while(1){
        system("cls");
        printf("\n\tlt seems that you entered the wrong cardinals three
times.\n\tDo you forget your password?\n\tWant to reset it?(Y/N)\n\n\tEnter
Command: ");
        command = getch();
        if(command == 'Y' | | command == 'y'){
           RESET_PASSWORD();
           break;
        }
        else{
```

```
printf("\n\tWrong Command!! Press any key to try again..");
          getch();
          continue;
        }
      }
   }
 }
}
void UPDATE_PASSWORD(void)
{
 IDENTITY_VERIFY();
 SET_PASSWORD();
}
void UPDATE_SECURITY_QUESTION(void)
{
 FILE *open_admin;
 char user_name[20];
 char password[20];
 char color[20];
 char sports[20];
 char pets[20];
  int i;
```

```
IDENTITY_VERIFY();
  open_admin = fopen(admin_directory, "r");
  if(open_admin == NULL){
    printf("\n\tSystem File Missing...\n\tPress any key to continue..");
    getch();
  }
  else{
    fgets(user_name, 20, open_admin);
    for(i = 0; i < strlen(user_name); i++){</pre>
      user_name[i] = user_name[i] - 508;
    }
    user_name[i-1] = '\0';
    fgets(password, 20, open_admin);
    for(i = 0; i < strlen(password); i++){</pre>
      password[i] = password[i] - 508;
    }
    password[i-1] = '\0';
    fclose(open_admin);
    system("cls");
    printf("\n\tln case you forget your password:\n\n\tWhats your favorite color:
");
    scanf("%s", color);
    getchar();
```

```
printf("\n\tWhats your favorite sports: ");
scanf("%s", sports);
getchar();
printf("\n\tWhats your favorite pets name: ");
scanf("%s", pets);
getchar();
open_admin = fopen(admin_directory, "w");
if(open admin == NULL){
  printf("\n\tSecurity Question Update Failed.. Press any key to continue..");
  getch();
}
else{
  for(i = 0; i < strlen(user_name); i++){</pre>
    fprintf(open_admin, "%c", user_name[i] + 508);
  }
  fprintf(open_admin, "\n");
  for(i = 0; i < strlen(password); i++){</pre>
    fprintf(open admin, "%c", password[i] + 508);
  }
  fprintf(open admin, "\n");
  for(i = 0; i < strlen(color); i++){
    fprintf(open admin, "%c", color[i] + 508);
```

```
}
      fprintf(open_admin, "\n");
      for(i = 0; i < strlen(sports); i++){</pre>
         fprintf(open_admin, "%c", sports[i] + 508);
      }
      fprintf(open_admin, "\n");
      for(i = 0; i < strlen(pets); i++){
         fprintf(open_admin, "%c", pets[i] + 508);
      }
      system("cls");
      printf("\n\tSecurity Question Updated Successfully.\n\tPress any key to
continue..");
      getch();
      fclose(open_admin);
    }
  }
}
void RESET_PASSWORD(void)
{
  FILE *open_admin;
  char color[20];
  char sports[20];
  char pets[20];
  char color_input[20];
```

```
char sports input[20];
char pets input[20];
char temp_string[20];
int i;
open admin = fopen(admin directory, "r");
if(open_admin == NULL){
  printf("\n\tSystem File Missing.. Press any key to continue...");
  getch();
}
else{
  fgets(temp_string, 20, open_admin);
  fgets(temp_string, 20, open_admin);
  fgets(color, 20, open admin);
  for(i = 0; i < strlen(color); i++){</pre>
    color[i] = color[i] - 508;
  }
  color[i-1] = '\0';
  fgets(sports, 20, open admin);
  for(i = 0; i < strlen(sports); i++){</pre>
    sports[i] = sports[i] - 508;
  }
  sports[i-1] = '\0';
```

```
fgets(pets, 20, open admin);
for(i = 0; i < strlen(pets); i++){
  pets[i] = pets[i] - 508;
}
while(1){
  system("cls");
  printf("\n\tWhats your favorite color: ");
  gets(color_input);
  if(strcmp(color, color_input) == 0){
    printf("\n\tWhats your favorite sports: ");
    gets(sports_input);
    if(strcmp(sports, sports_input) == 0){
       printf("\n\tWhats your favorite pets name: ");
       gets(pets_input);
       if(strcmp(pets, pets input) == 0){
         printf("\n\tAccess Granted..\n\tPress any key to continue..");
         getch();
         fclose(open_admin);
         SET_PASSWORD();
         break;
       }
       else{
         printf("\n\tWrong Input.. Press any key to try again..");
```

```
getch();
             continue;
           }
         }
         else{
           printf("\n\tWrong Input.. Press any key to try again..");
           getch();
           continue;
         }
      }
      else{
         printf("\n\tWrong Input.. Press any key to try again..");
        getch();
        continue;
      }
    }
  }
}
void ADD_NOTES(void)
{
  system("cls");
  char title[100];
  char notes[1000];
```

```
char notes direction file[1000];
  FILE *open notes file;
  while(1){
    system("cls");
    printf("\n\tEnter Title: ");
    gets(title);
    strcpy(notes direction file, current directory);
    strcat(notes_direction_file, "\\database\\notes\\");
    strcat(notes_direction_file, title);
    open_notes_file = fopen(notes_direction_file, "r");
    if(open_notes_file != NULL){
       printf("\n\tlt seems that you already have a notes by this name.\n\tYou
can't add two notes by the same name.\n\tPress any key to try again...");
      getch();
      fclose(open notes file);
      continue;
    }
    else{
       break;
    }
  }
  open notes file = fopen(notes direction file, "w");
```

```
if(open notes file == NULL){
    printf("\n\tUnable to create file..\n\tPress any key to continue..");
    getch();
  }
  else{
    printf("\n\tEnter your Notes: ");
    gets(notes);
    for(int i = 0; i < strlen(notes); i++){</pre>
      fprintf(open notes file, "%c", notes[i] + 508);
    }
    printf("\n\tYour notes saved successfully.\n\tPress any key to continue..");
    getch();
    fclose(open_notes_file);
  }
}
void VIEW_NOTES(void)
{
  system("cls");
  char title[100];
  char ch;
  printf("\n\tFor opening your notes please enter Title: ");
  gets(title);
```

```
char notes_direction_file[1000];
strcpy(notes_direction_file, current_directory);
strcat(notes_direction_file, "\\database\\notes\\");
strcat(notes_direction_file, title);
FILE *open_notes_file;
open_notes_file = fopen(notes_direction_file, "r");
if(open_notes_file == NULL){
  printf("\n\tNotes not found in database..\n\tPress any key to continue..");
  getch();
}
else{
  printf("\n\tNotes: ");
  while(1){
    ch = fgetc(open notes file);
    if(ch == EOF){
      break;
    }
    else{
      printf("%c", ch-508);
    }
  }
```

```
printf("\n\n\tPress any key to continue..");
    getch();
    fclose(open_notes_file);
  }
}
void EDIT_NOTES(void)
{
  FILE *open_notes_file;
  char title[100];
  char notes[1000];
  char ch;
  system("cls");
  printf("\n\tFor opening your notes please enter Title: ");
  gets(title);
  char notes_direction_file[1000];
  strcpy(notes_direction_file, current_directory);
  strcat(notes_direction_file, "\\database\\notes\\");
  strcat(notes_direction_file, title);
  open_notes_file = fopen(notes_direction_file, "r");
```

```
if(open notes file == NULL){
  printf("\n\tNotes not found in database..\n\tPress any key to continue..");
  getch();
}
else{
  printf("\n\tPrevious Notes: ");
  while(1){
    ch = fgetc(open_notes_file);
    if(ch == EOF){
      break;
    }
    else{
      printf("%c", ch-508);
    }
  }
  fclose(open_notes_file);
  printf("\n\n\tEnter your New Notes: ");
  gets(notes);
  printf("\n\n\tAre you sure you want to edit your notes?(Y/N): ");
  ch = getch();
  if(ch == 'Y' || ch == 'y'){
    IDENTITY_VERIFY();
```

```
open notes file = fopen(notes direction file, "w");
       if(open_notes_file == NULL){
         printf("\n\tUnable to Edit Notes..\n\tPress any key to continue..");
         getch();
       }
       else{
         for(int i = 0; i < strlen(notes); i++){</pre>
           fprintf(open notes file, "%c", notes[i] + 508);
         }
         printf("\n\n\tYour notes edited successfully.\n\tPress any key to
continue..");
         getch();
         fclose(open notes file);
      }
    }
    else{
       printf("\n\n\tEdit canceled..\n\tPress any key to Continue...");
      getch();
    }
  }
}
void DELETE NOTES(void)
{
  FILE *open_notes_file;
```

char title[100];

```
char ch;
int status;
system("cls");
printf("\n\tFor deleting your notes please enter Title: ");
gets(title);
char notes_direction_file[1000];
strcpy(notes_direction_file, current_directory);
strcat(notes_direction_file, "\\database\\notes\\");
strcat(notes direction file, title);
open_notes_file = fopen(notes_direction_file, "r");
if(open notes file == NULL){
  printf("\n\tNotes not found in database..\n\tPress any key to continue..");
  getch();
}
else{
  printf("\n\tNotes: ");
  while(1){
    ch = fgetc(open_notes_file);
    if(ch == EOF){
       break;
    }
```

```
else{
    printf("%c", ch-508);
  }
}
fclose(open_notes_file);
printf("\n\n\tAre you sure you want to delete this notes? (Y/N): ");
ch = getch();
if(ch == 'Y' || ch == 'y'){
  IDENTITY_VERIFY();
  status = remove(notes_direction_file);
  if(status == 0){
    printf("\n\tFile Deleted successfully..\n\tPress any key to continue...");
    getch();
  }
  else{
    printf("\n\tFile Delete failed..\n\tPress any key to try again...");
    getch();
  }
}
else{
  printf("\n\tDelete canceled...\n\tPress any key to continue..");
  getch();
```

```
}
  }
}
void ADD_SCHEDULE(void)
{
  FILE *open_schedule_file;
  char date[200];
  char time[200];
  char person[200];
  char place[200];
  char duration[200];
  char notes[1000];
  char schedule file direction[1000];
  char ch;
  char variable name Time[] = "\tTime: ";
  char variable name Person[] = "\n\tPerson: ";
  char variable name Place[] = "\n\tPlace: ";
  char variable name Duration[] = "\n\tDuration: ";
  char variable_name_Notes[] = "\n\tNotes: ";
  char variable_name_New_Line[] = "\n\n";
```

```
system("cls");
printf("\n\tFor add new schedule please enter the date(DD-MM-YYYY): ");
gets(date);
strcpy(schedule_file_direction, current_directory);
strcat(schedule_file_direction, "\\database\\daily_schedule\\");
strcat(schedule_file_direction, date);
open_schedule_file = fopen(schedule_file_direction, "r");
if(open schedule file == NULL){
  open_schedule_file = fopen(schedule_file_direction, "w");
  if(open_schedule_file == NULL){
    printf("\n\tUnable to create file..\n\tPress any key to continue..");
    getch();
  }
  else{
    printf("\n\tEnter Time(HH:MM): ");
    gets(time);
    printf("\n\tEnter Person Name: ");
    gets(person);
    printf("\n\tEnter Place: ");
    gets(place);
    printf("\n\tEnter Duration: ");
    gets(duration);
```

```
printf("\n\tEnter Short Notes: ");
gets(notes);
for(i = 0; i < strlen(variable name Time); i++){</pre>
  fprintf(open_schedule_file, "%c", variable_name_Time[i]+508);
}
for(i = 0; i < strlen(time); i++){
  fprintf(open schedule file, "%c", time[i] + 508);
}
for(i = 0; i < strlen(variable name Person); i++){</pre>
  fprintf(open schedule file, "%c", variable name Person[i]+508);
}
for(i = 0; i < strlen(person); i++){
  fprintf(open schedule file, "%c", person[i] + 508);
}
for(i = 0; i < strlen(variable name Place); i++){</pre>
  fprintf(open schedule file, "%c", variable name Place[i]+508);
}
for(i = 0; i < strlen(place); i++){</pre>
  fprintf(open schedule file, "%c", place[i] + 508);
}
```

```
fprintf(open schedule file, "%c", variable name Duration[i]+508);
      }
      for(i = 0; i < strlen(duration); i++){</pre>
         fprintf(open schedule file, "%c", duration[i] + 508);
       }
      for(i = 0; i < strlen(variable_name_Notes); i++){</pre>
         fprintf(open schedule file, "%c", variable name Notes[i]+508);
       }
      for(i = 0; i < strlen(notes); i++){</pre>
         fprintf(open schedule file, "%c", notes[i] + 508);
       }
      for(i = 0; i < strlen(variable name New Line); i++){</pre>
         fprintf(open schedule file, "%c", variable name New Line[i]+508);
      }
       printf("\n\tYour Schedule saved successfully.\n\tPress any key to
continue..");
      getch();
      fclose(open schedule file);
    }
  }
  else{
    fclose(open schedule file);
```

for(i = 0; i < strlen(variable name Duration); i++){</pre>

printf("\n\tlt seems that you already have a schedule for this date.\n\tDo you want to add another plan at a different time,\n\tor you can cancel and add another program on a different date?(Y/N): ");

```
ch = getch();
if(ch == 'Y' | | ch == 'y'){
  open schedule file = fopen(schedule file direction, "a");
  if(open_schedule_file == NULL){
    printf("\n\tUnable to open file..\n\tPress any key to continue..");
    getch();
  }
  else{
    printf("\n\tEnter Time(HH:MM): ");
    gets(time);
    printf("\n\tEnter Person Name: ");
    gets(person);
    printf("\n\tEnter Place: ");
    gets(place);
    printf("\n\tEnter Duration: ");
    gets(duration);
    printf("\n\tEnter Short Notes: ");
    gets(notes);
    for(i = 0; i < strlen(variable name Time); i++){</pre>
       fprintf(open schedule file, "%c", variable name Time[i]+508);
    }
    for(i = 0; i < strlen(time); i++){
```

```
fprintf(open schedule file, "%c", time[i] + 508);
}
for(i = 0; i < strlen(variable name Person); i++){</pre>
  fprintf(open schedule file, "%c", variable name Person[i]+508);
}
for(i = 0; i < strlen(person); i++){</pre>
  fprintf(open schedule file, "%c", person[i] + 508);
}
for(i = 0; i < strlen(variable name Place); i++){</pre>
  fprintf(open schedule file, "%c", variable name Place[i]+508);
}
for(i = 0; i < strlen(place); i++){</pre>
  fprintf(open_schedule_file, "%c", place[i] + 508);
}
for(i = 0; i < strlen(variable name Duration); i++){</pre>
  fprintf(open schedule file, "%c", variable name Duration[i]+508);
}
for(i = 0; i < strlen(duration); i++){</pre>
  fprintf(open schedule file, "%c", duration[i] + 508);
}
for(i = 0; i < strlen(variable name Notes); i++){</pre>
```

```
fprintf(open schedule file, "%c", variable name Notes[i]+508);
         }
        for(i = 0; i < strlen(notes); i++){</pre>
           fprintf(open_schedule_file, "%c", notes[i] + 508);
         }
        for(i = 0; i < strlen(variable_name_New_Line); i++){</pre>
           fprintf(open schedule file, "%c", variable name New Line[i]+508);
         }
         printf("\n\tYour Schedule saved successfully.\n\tPress any key to
continue..");
         getch();
        fclose(open schedule file);
      }
    }
    else{
      printf("\n\n\tNew schedule add canceled...\n\tPress any key to
continue...");
      getch();
    }
  }
}
void VIEW SCHEDULE(void)
{
  FILE *open schedule file;
```

```
char date[200];
  char schedule file direction[1000];
  char ch;
  int i;
  system("cls");
  printf("\n\tFor viewing your schedule, please enter the date(DD-MM-YYYY): ");
  gets(date);
  strcpy(schedule_file_direction, current_directory);
  strcat(schedule file direction, "\\database\\daily schedule\\");
  strcat(schedule_file_direction, date);
  open_schedule_file = fopen(schedule_file_direction, "r");
  if(open schedule file == NULL){
    printf("\n\tln the database, there is no schedule for this date.\n\tPress any
key to continue...");
    getch();
  }
  else{
    printf("\n\tSchedule for this date:\n");
    while(1){
      ch = fgetc(open_schedule_file);
      if(ch == EOF){
         break;
```

```
}
      else{
        printf("%c", ch-508);
      }
    }
    printf("\n\n\tPress any key to continue..");
    getch();
    fclose(open_schedule_file);
  }
}
void EDIT_SCHEDULE(void)
{
  FILE *open_schedule_file;
  char date[100];
  char schedule_file_direction[1000];
  char ch;
  char time[200];
  char person[200];
  char place[200];
  char duration[200];
  char notes[1000];
  char variable_name_Time[] = "\tTime: ";
  char variable_name_Person[] = "\n\tPerson: ";
```

```
char variable name Place[] = "\n\tPlace: ";
  char variable name Duration[] = "\n\tDuration: ";
  char variable_name_Notes[] = "\n\tNotes: ";
  char variable_name_New_Line[] = "\n\n";
  int i;
  system("cls");
  printf("\n\tFor editing your schedule, please enter the date(DD-MM-YYYY): ");
  gets(date);
  strcpy(schedule file direction, current directory);
  strcat(schedule_file_direction, "\\database\\daily_schedule\\");
  strcat(schedule_file_direction, date);
  open schedule file = fopen(schedule file direction, "r");
  if(open_schedule_file == NULL){
    printf("\n\tln the database, there is no schedule for this date.\n\tPress any
key to continue...");
    getch();
  }
  else{
    printf("\n\tPrevious schedule for this date:\n");
    while(1){
      ch = fgetc(open schedule file);
      if(ch == EOF){
```

```
break;
  }
  else{
    printf("%c", ch-508);
  }
}
fclose(open_schedule_file);
printf("\n\n\tNow Enter new schedule:\n");
printf("\n\tEnter Time(HH:MM): ");
gets(time);
printf("\n\tEnter Person Name: ");
gets(person);
printf("\n\tEnter Place: ");
gets(place);
printf("\n\tEnter Duration: ");
gets(duration);
printf("\n\tEnter Short Notes: ");
gets(notes);
printf("\n\tAre you sure to edit this schedule?(Y/N): ");
ch = getch();
if(ch == 'Y' || ch == 'y'){
  IDENTITY_VERIFY();
```

```
open schedule file = fopen(schedule file direction, "w");
       if(open_schedule_file == NULL){
         printf("\n\tUnable to edit this schedule.\n\tPress any key to
continue...");
         getch();
       }
       else{
         for(i = 0; i < strlen(variable name Time); i++){</pre>
           fprintf(open_schedule_file, "%c", variable_name_Time[i]+508);
         }
         for(i = 0; i < strlen(time); i++){
           fprintf(open_schedule_file, "%c", time[i] + 508);
         }
         for(i = 0; i < strlen(variable_name_Person); i++){</pre>
           fprintf(open_schedule_file, "%c", variable_name_Person[i]+508);
         }
         for(i = 0; i < strlen(person); i++){
           fprintf(open schedule file, "%c", person[i] + 508);
         }
         for(i = 0; i < strlen(variable name Place); i++){
           fprintf(open schedule file, "%c", variable name Place[i]+508);
         }
         for(i = 0; i < strlen(place); i++){</pre>
           fprintf(open_schedule_file, "%c", place[i] + 508);
```

```
}
```

```
fprintf(open_schedule_file, "%c", variable_name_Duration[i]+508);
         }
         for(i = 0; i < strlen(duration); i++){</pre>
           fprintf(open_schedule_file, "%c", duration[i] + 508);
         }
         for(i = 0; i < strlen(variable name Notes); i++){</pre>
         fprintf(open schedule file, "%c", variable name Notes[i]+508);
         }
         for(i = 0; i < strlen(notes); i++){</pre>
           fprintf(open schedule file, "%c", notes[i] + 508);
         }
         for(i = 0; i < strlen(variable_name_New_Line); i++){</pre>
           fprintf(open schedule file, "%c", variable name New Line[i]+508);
         }
         printf("\n\tYour Schedule edited successfully.\n\tPress any key to
continue..");
         getch();
         fclose(open schedule file);
       }
    }
  }
```

for(i = 0; i < strlen(variable\_name\_Duration); i++){</pre>

```
}
void DELETE_SCHEDULE(void)
{
  FILE *open_schedule_file;
  char date[200];
  char schedule_file_direction[1000];
  char ch;
  int i, status;
  system("cls");
  printf("\n\tFor viewing your schedule, please enter the date(DD-MM-YYYY): ");
  gets(date);
  strcpy(schedule file direction, current directory);
  strcat(schedule_file_direction, "\\database\\daily_schedule\\");
  strcat(schedule_file_direction, date);
  open_schedule_file = fopen(schedule_file_direction, "r");
  if(open_schedule_file == NULL){
    printf("\n\tln the database, there is no schedule for this date.\n\tPress any
key to continue...");
    getch();
  }
```

else{

```
printf("\n\tSchedule for this date:\n");
while(1){
  ch = fgetc(open_schedule_file);
  if(ch == EOF){
    break;
  }
  else{
    printf("%c", ch-508);
  }
}
fclose(open_schedule_file);
printf("\n\n\tAre you sure you want to delete this Schedule? (Y/N): ");
ch = getch();
if(ch == 'Y' | | ch == 'y'){
  IDENTITY_VERIFY();
  status = remove(schedule_file_direction);
  if(status == 0){
    printf("\n\tFile Deleted successfully..\n\tPress any key to continue...");
    getch();
  }
  else{
```

```
printf("\n\tFile Delete failed..\n\tPress any key to try again...");
        getch();
      }
    }
    else{
      printf("\n\tDelete canceled...\n\tPress any key to continue..");
      getch();
    }
  }
}
void ADD_CLIENT_INFORMATION(void)
{
  FILE *open_client_info_file;
  char name[100];
  char profession[100];
  char number[100];
  char email[200];
  char address_office[200];
  char address_home[200];
  char notes[1000];
  char client_information_file_direction[1000];
```

```
int i;
system("cls");
printf("\n\tPlease enter your client Name: ");
gets(name);
strcpy(client_information_file_direction, current_directory);
strcat(client information file direction, "\\database\\client information\\");
strcat(client_information_file_direction, name);
open_client_info_file = fopen(client_information_file_direction, "r");
if(open client info file == NULL){
  open_client_info_file = fopen(client_information_file_direction, "w");
  if(open client info file == NULL){
    printf("\n\tUnable to create file...\n\tPlease try again...");
    getch();
  }
  else{
    printf("\n\tProfession: ");
    gets(profession);
    printf("\n\tPhone Number: ");
    gets(number);
    printf("\n\tE-Mail: ");
    gets(email);
    printf("\n\tOffice Address: ");
```

```
gets(address office);
printf("\n\tHome Address: ");
gets(address_home);
printf("\n\tShort Notes: ");
gets(notes);
for(i = 0; i < strlen(profession); i++){</pre>
  fprintf(open_client_info_file, "%c", profession[i] + 508);
}
fprintf(open client info file, "\n");
for(i = 0; i < strlen(number); i++){</pre>
  fprintf(open client info file, "%c", number[i] + 508);
}
fprintf(open_client_info_file, "\n");
for(i = 0; i < strlen(email); i++){
  fprintf(open_client_info_file, "%c", email[i] + 508);
}
fprintf(open client info file, "\n");
for(i = 0; i < strlen(address office); i++){</pre>
  fprintf(open client info file, "%c", address office[i] + 508);
}
fprintf(open client info file, "\n");
for(i = 0; i < strlen(address home); i++){</pre>
  fprintf(open_client_info_file, "%c", address home[i] + 508);
```

```
}
      fprintf(open client info file, "\n");
      for(i = 0; i < strlen(notes); i++){</pre>
        fprintf(open_client_info_file, "%c", notes[i] + 508);
      }
      fclose(open_client_info_file);
      printf("\n\tClient Information saved successfully.\n\tPress any key to
continue....");
      getch();
    }
  }
  else{
    printf("\n\tlt seems that you already have client information by this
name.\n\tYou can't add two client information by the same name.\n\tPlease add
a different name.\n\tPress any key to continue...");
    getch();
    fclose(open_client_info_file);
  }
}
void VIEW CLIENT INFORMATION(void)
{
  FILE *open_client_info_file;
  char name[100];
  char profession[200];
```

```
char number[200];
  char email[200];
  char address_office[200];
  char address_home[200];
  char notes[1000];
  char client_information_file_direction[1000];
  int i;
  system("cls");
  printf("\n\tFor viewing information, please enter your client name: ");
  gets(name);
  strcpy(client_information_file_direction, current_directory);
  strcat(client information file direction, "\\database\\client information\\");
  strcat(client information file direction, name);
  open_client_info_file = fopen(client_information_file_direction, "r");
  if(open_client_info_file == NULL){
    printf("\n\tln the database, there is no client information by this
name..\n\tPress any key to try again...");
    getch();
  }
  else{
    fgets(profession, 200, open_client_info_file);
    for(i = 0; i < strlen(profession); i++){</pre>
```

```
profession[i] = profession[i] - 508;
}
profession[i-1] = '\0';
fgets(number, 200, open_client_info_file);
for(i = 0; i < strlen(number); i++){</pre>
  number[i] = number[i] - 508;
}
number[i-1] = '\0';
fgets(email, 200, open_client_info_file);
for(i = 0; i < strlen(email); i++){
  email[i] = email[i] - 508;
}
email[i-1] = '\0';
fgets(address office, 200, open client info file);
for(i = 0; i < strlen(address office); i++){</pre>
  address_office[i] = address_office[i] - 508;
}
address office[i-1] = '\0';
fgets(address home, 200, open client info file);
for(i = 0; i < strlen(address home); i++){</pre>
  address home[i] = address home[i] - 508;
}
address_home[i-1] = '\0';
```

```
fgets(notes, 200, open client info file);
    for(i = 0; i < strlen(notes); i++){</pre>
      notes[i] = notes[i] - 508;
    }
    printf("\n\tProfession: %s\n\tPhone Number: %s\n\tE-Mail: %s\n\tOffice
Address: %s\n\tHome Address: %s\n\tShort Notes: %s\n\n\tPress any key to
continue..", profession, number, email, address office, address home, notes);
    getch();
    fclose(open_client_info_file);
  }
}
void EDIT_CLIENT_INFORMATION(void)
{
  FILE *open client info file;
  char name[100];
  char profession[200];
  char number[200];
  char email[200];
  char address_office[200];
  char address_home[200];
  char notes[1000];
  char ch;
```

```
char client information file direction[1000];
  int i;
  system("cls");
  printf("\n\tFor viewing information, please enter your client name: ");
  gets(name);
  strcpy(client_information_file_direction, current_directory);
  strcat(client_information_file_direction, "\\database\\client_information\\");
  strcat(client_information_file_direction, name);
  open_client_info_file = fopen(client_information_file_direction, "r");
  if(open_client_info_file == NULL){
    printf("\n\tln the database, there is no client information by this
name..\n\tPress any key to try again...");
    getch();
  }
  else{
    fgets(profession, 200, open_client_info_file);
    for(i = 0; i < strlen(profession); i++){</pre>
       profession[i] = profession[i] - 508;
    }
    profession[i-1] = '\0';
    fgets(number, 200, open_client_info_file);
    for(i = 0; i < strlen(number); i++){</pre>
```

```
number[i] = number[i] - 508;
}
number[i-1] = '\0';
fgets(email, 200, open_client_info_file);
for(i = 0; i < strlen(email); i++){
  email[i] = email[i] - 508;
}
email[i-1] = '\0';
fgets(address_office, 200, open_client_info_file);
for(i = 0; i < strlen(address_office); i++){</pre>
  address office[i] = address office[i] - 508;
}
address_office[i-1] = '\0';
fgets(address home, 200, open client info file);
for(i = 0; i < strlen(address home); i++){</pre>
  address_home[i] = address_home[i] - 508;
}
address home[i-1] = '\0';
fgets(notes, 200, open_client_info_file);
for(i = 0; i < strlen(notes); i++){
  notes[i] = notes[i] - 508;
}
fclose(open client info file);
```

printf("\n\tProfession: %s\n\tPhone Number: %s\n\tE-Mail: %s\n\tOffice Address: %s\n\tHome Address: %s\n\tShort Notes: %s\n\n\tWhich information do you want to edit?\n\t=> 1. Profession\n\t=> 2. Number\n\t=> 3. E-Mail\n\t=> 4. Office Address\n\t=> 5. Home Address\n\t=> 6. Short Notes\n\t=> 7. Whole Information\n\t=> 8. Cancel\n\n\tEnter Command: ", profession, number, email, address office, address home, notes);

```
ch = getch();
if(ch == '1'){}
  printf("\n\tEnter Profession: ");
  gets(profession);
}
else if(ch == '2'){
  printf("\n\tEnter Phone Number: ");
  gets(number);
}
else if(ch == '3'){
  printf("\n\tEnter E-Mail: ");
  gets(email);
}
else if(ch == '4'){
  printf("\n\tEnter Office Address: ");
  gets(address_office);
}
else if(ch == '5'){
  printf("\n\tEnter Home Address: ");
  gets(address_home);
}
else if(ch == '6'){
```

```
printf("\n\tEnter Short Notes: ");
  gets(notes);
}
else if(ch == '7'){
  printf("\n\tProfession: ");
  gets(profession);
  printf("\n\tPhone Number: ");
  gets(number);
  printf("\n\tE-Mail: ");
  gets(email);
  printf("\n\tOffice Address: ");
  gets(address_office);
  printf("\n\tHome Address: ");
  gets(address_home);
  printf("\n\tShort Notes: ");
  gets(notes);
}
else{
  printf("\n\tEdit canceled....\n\tPress any key to continue...");
  getch();
}
if(ch >= '1' && ch <= '7'){
  printf("\n\tAre you sure to edit this information?(Y/N): ");
  ch = getch();
  if(ch == 'Y' || ch == 'y'){
```

```
IDENTITY VERIFY();
open_client_info_file = fopen(client_information_file direction, "w");
if(open client info file == NULL){
  printf("\n\tUnable to edit information.... Please try again...");
  getch();
}
else{
  for(i = 0; i < strlen(profession); i++){</pre>
    fprintf(open client info file, "%c", profession[i] + 508);
  }
  fprintf(open client info file, "\n");
  for(i = 0; i < strlen(number); i++){</pre>
    fprintf(open client info file, "%c", number[i] + 508);
  }
  fprintf(open_client_info_file, "\n");
  for(i = 0; i < strlen(email); i++){
    fprintf(open client info file, "%c", email[i] + 508);
  fprintf(open client info file, "\n");
  for(i = 0; i < strlen(address office); i++){</pre>
    fprintf(open client info file, "%c", address office[i] + 508);
  }
```

```
fprintf(open_client_info_file, "\n");
           for(i = 0; i < strlen(address_home); i++){</pre>
              fprintf(open_client_info_file, "%c", address_home[i] + 508);
           }
           fprintf(open_client_info_file, "\n");
           for(i = 0; i < strlen(notes); i++){</pre>
              fprintf(open_client_info_file, "%c", notes[i] + 508);
           }
           fclose(open_client_info_file);
           printf("\n\tEdited Successfully..\n\tPress any key to continue...");
           getch();
         }
      }
       else{
         printf("\n\tEdit canceled....\n\tPress any key to continue...");
         getch();
       }
    }
  }
}
void DELETE_CLIENT_INFORMATION(void)
{
  FILE *open client info file;
```

```
char name[100];
  char profession[200];
  char number[200];
  char email[200];
  char address office[200];
  char address_home[200];
  char notes[1000];
  char ch;
  char client_information_file_direction[1000];
  int i, status;
  system("cls");
  printf("\n\tFor deleting information, please enter your client name: ");
  gets(name);
  strcpy(client_information_file_direction, current_directory);
  strcat(client_information_file_direction, "\\database\\client_information\\");
  strcat(client_information_file_direction, name);
  open_client_info_file = fopen(client_information_file_direction, "r");
  if(open_client_info_file == NULL){
    printf("\n\tln the database, there is no client information by this
name..\n\tPress any key to try again...");
```

```
getch();
}
else{
  fgets(profession, 200, open_client_info_file);
  for(i = 0; i < strlen(profession); i++){</pre>
    profession[i] = profession[i] - 508;
  }
  profession[i-1] = '\0';
  fgets(number, 200, open_client_info_file);
  for(i = 0; i < strlen(number); i++){</pre>
    number[i] = number[i] - 508;
  }
  number[i-1] = '\0';
  fgets(email, 200, open_client_info_file);
  for(i = 0; i < strlen(email); i++){</pre>
    email[i] = email[i] - 508;
  }
  email[i-1] = '\0';
  fgets(address_office, 200, open_client_info_file);
  for(i = 0; i < strlen(address office); i++){</pre>
    address_office[i] = address_office[i] - 508;
  }
  address_office[i-1] = '\0';
  fgets(address home, 200, open client info file);
```

```
for(i = 0; i < strlen(address home); i++){</pre>
      address home[i] = address home[i] - 508;
    }
    address_home[i-1] = '\0';
    fgets(notes, 200, open client info file);
    for(i = 0; i < strlen(notes); i++){
      notes[i] = notes[i] - 508;
    }
    fclose(open_client_info_file);
    printf("\n\tProfession: %s\n\tPhone Number: %s\n\tE-Mail: %s\n\tOffice
Address: %s\n\tHome Address: %s\n\tShort Notes: %s\n\n\tAre you sure to
delete this client information?(Y/N): ", profession, number, email, address office,
address_home, notes);
    ch = getch();
    if(ch == 'Y' | | ch == 'y'){
      IDENTITY_VERIFY();
      status = remove(client information file direction);
      if(status == 0){
         printf("\n\tClient information deleted successfully..\n\tPress any key to
continue..");
        getch();
      }
      else{
         printf("\n\tClient information deletion failed...\n\tPress any key to
continue...");
```

```
getch();
      }
    }
    else{
      printf("\n\tDelete canceled...\n\tPress any key to continue...");
      getch();
    }
  }
}
void ABOUT(void)
{
  system("cls");
  WELCOME_SCREEN();
  printf("\n\n\tVersion: 01.07\n\tLast Updated: 24.04.2022\n\n\tPowered by
SfM1");
  printf("\n\n\tTeam: TUF CODER\n\n\tTeam Members:");
  printf("\n\tJoy Kumar Ghosh\n\tID: 2211424 6 42");
  printf("\n\n\tKazi Abid Shahoriar\n\tID: 2211967 0 42");
  printf("\n\tJannatul Mawa Tahi\n\tID: 2212096 0 42");
  printf("\n\n\tFarhana Rahman Risha\n\tID: 2211598 6 42");
  printf("\n\t Khandaker Anjuman Parvez\n\t ID: 2212536 0 42");
```

```
getch();
 EXIT_SCREEN();
}
void WELCOME SCREEN(void)
{
printf("\t _____ ___
                                  ");
printf("\n\t.-/| \\ / |\\-.");
printf("\n\t|||
                 ||||");
               printf("\n\t|||Password Protected | ||||");
printf("\n\t||||
               | V. 01.04 ||||");
printf("\n\t||| Personal Diary | Powered by SfM1 ||||");
printf("\n\t|||
                 ||||");
printf("\n\t||| with Encryption | ||||");
printf("\n\t||| |
                 ||||");
printf("\n\t||| | | |||");
printf("\n\t|||____||_||;
printf("\n\t||/========\\|/=======\\||");
printf("\n\t`-----");
}
void HEADER_SCREEN(char menu_msg[])
{
 int lenght_menu_msg = strlen(menu_msg), i, j;
```

```
printf("\n\n\t");
  for(i = 0; i <= (45-lenght_menu_msg-2)/2; i++){
   printf("\xB2");
 }
  printf(" %s ", menu msg);
 for(j = 0; j <= (44-lenght_menu_msg-i); j++){</pre>
   printf("\xB2");
 }
  printf("\n");
void EXIT_SCREEN(void)
{
  system("cls");
  printf("\n\t _ .-\"--._");
  printf("\n\t /\\ / ____\\");
  printf("\n\t ||\\\ / /`(");
  printf("\n\t || \\\\_| '``'-.");
  printf("\n\t \\_ 9 _'-.= .--'|}");
  printf("\n\t | _ \\) | / /}}");
  printf("\n\t \\ = \\ ;_.'/ .=\\.--'`\\}");
  printf("\n\t | `-`__.;---.//`'---./'");
  printf("\n\t '.___.-'` `| ___ __ __ __");
```

}

```
printf("\n\t _/ __.-.__/ |__||||/_\\|\\|||//");
 printf("\n\t .-' .-' ||| || || \ || \ \");
 printf("\n\t .-/ / |\\\\ |_| |_| |_| |_| |_| |\\\\");
                            __ __");
 printf("\n\t{ | /_ / \\|
 printf("\n\t '-. | | \\ / | | | | | |");
 printf("\n\t ) /_/ |_| \\___/");
 printf("\n\t / __.' '--.");
 printf("\n\t ( '--. ___)))");
 printf("\n\t `-..___)))");
 printf("\n\n\t\t\t\t\tFOR USING OUR SOFTWARE\n\n\n");
 getch();
}
Team Info.:
Team Name: TUF CODER
Team Members:
Joy Kumar Ghosh
                        ID: 2211424 6 42
Kazi Abid Shahoriar
                        ID: 2211967 0 42
Jannatul Mawa Tahi
                        ID: 2212096 0 42
Farhana Rahman Risha
                    ID: 2211598 6 42
Khandaker Anjuman Parvez ID: 2212536 0 42
```

## **Thank You**