```
#include<stdio.h>
#include<stdlib.h>
#include<conio.h>
#include<string.h>
int password();
void addrecord();
void viewrecord();
void editrecord();
void editpassword();
void deleterecord();
struct record
   char time[6];
   char name[30];
    char place[25];
    char duration[10];
   char note[500];
};
int main()
   int ch;
    printf("\n\n\t******************************n");
   printf("\t*Welcome to Diary Management System*\n");
   printf("\t***********************");
```

```
while(1)
    printf("\n\n\t\tMAIN MENU:");
    printf("\n\n\tADD RECORD\t[1]");
    printf("\n\tVIEW RECORD\t[2]");
    printf("\n\tEDIT RECORD\t[3]");
    printf("\n\tDELETE RECORD\t[4]");
    printf("\n\tEDIT PASSWORD\t[5]");
    printf("\n\tEXIT\t\t[6]");
    printf("\n\n\tENTER YOUR CHOICE:");
    scanf("%d",&ch);
    switch(ch)
    case 1:
        addrecord();
        break;
    case 2:
        viewrecord();
        break;
    case 3:
        editrecord();
        break;
    case 4:
        deleterecord();
```

```
break;
        case 5:
            editpassword();
            break;
        case 6:
            printf("\n\n\t\tTHANK YOU FOR USING THE SOFTWARE ");
           getch();
            exit(0);
        default:
            printf("\nYOU ENTERED WRONG CHOICE..");
            printf("\nPRESS ANY KEY TO TRY AGAIN");
           getch();
           break;
        system("cls");
   return 0;
void addrecord( )
   system("cls");
    FILE *fp;
   char another = 'Y' ,time[10];
   struct record e ;
```

```
char filename[15];
int choice;
printf("\n\n\t\t*****************\n");
printf("\t\t* WELCOME TO THE ADD MENU *");
printf("\n\t\t*****************\n\n");
printf("\n\n\tenter DATE OF YOUR RECORD:[dd-mm-yyyy]:");
fflush(stdin);
gets(filename);
fp = fopen (filename, "ab+" );
if ( fp == NULL )
    fp=fopen(filename,"wb+");
   if(fp==NULL)
       printf("\nSYSTEM ERROR...");
       printf("\nPRESS ANY KEY TO EXIT");
       getch();
while ( another == 'Y'|| another=='y' )
    choice=0;
    fflush(stdin);
```

```
printf ( "\n\tENTER TIME:[hh:mm]:");
scanf("%s",time);
rewind(fp);
while(fread(&e,sizeof(e),1,fp)==1)
    if(strcmp(e.time,time)==0)
        printf("\n\tTHE RECORD ALREADY EXISTS.\n");
        choice=1;
if(choice==0)
    strcpy(e.time,time);
    printf("\tENTER NAME:");
    fflush(stdin);
    gets(e.name);
    fflush(stdin);
    printf("\tENTER PLACE:");
    gets(e.place);
    fflush(stdin);
    printf("\tENTER DURATION:");
    gets(e.duration);
    fflush(stdin);
```

```
printf("\tNOTE:");
           gets(e.note);
           fwrite ( &e, sizeof ( e ), 1, fp );
           printf("\nYOUR RECORD IS ADDED...\n");
       printf ( "\n\tADD ANOTHER RECORD...(Y/N) " );
       fflush ( stdin );
       another = getchar( );
   fclose ( fp );
   printf("\n\n\tPRESS ANY KEY TO EXIT...");
   getch();
void viewrecord( )
   FILE *fpte ;
   system("cls");
   struct record customer;
   char time[6],choice,filename[14];
   int ch;
   printf("\n\n\t\t******************\n");
   printf("\t\t* HERE IS THE VIEWING MENU *");
   printf("\n\t\t*******************\n\n");
   choice=password();
```

```
if(choice!=0)
   return ;
   printf("\n\tENTER THE DATE OF RECORD TO BE VIEWED:[yyyy-mm-dd]:");
   fflush(stdin);
   gets(filename);
   fpte = fopen ( filename, "rb" );
   if ( fpte == NULL )
       puts ( "\nTHE RECORD DOES NOT EXIST...\n" );
       printf("PRESS ANY KEY TO EXIT...");
       getch();
    system("cls");
   printf("\n\tHOW WOULD YOU LIKE TO VIEW:\n");
   printf("\n\t1.WHOLE RECORD OF THE DAY.");
   printf("\n\t2.RECORD OF FIX TIME.");
   printf("\n\t\tENTER YOUR CHOICE:");
   scanf("%d",&ch);
    switch(ch)
```

```
{
case 1:
    printf("\nTHE WHOLE RECORD FOR %s IS:",filename);
   while ( fread ( &customer, sizeof ( customer ), 1, fpte ) == 1 )
        printf("\n");
        printf("\nTIME: %s",customer.time);
        printf("\nMEETING WITH: %s",customer.name);
        printf("\nMEETING AT: %s",customer.place);
        printf("\nDURATION: %s",customer.duration);
        printf("\nNOTE: %s",customer.note);
        printf("\n");
    break;
case 2:
   fflush(stdin);
    printf("\nENTER TIME:[hh:mm]:");
   gets(time);
   while ( fread ( &customer, sizeof ( customer ), 1, fpte ) == 1 )
        if(strcmp(customer.time,time)==0)
            printf("\nYOUR RECORD IS:");
            printf("\nTIME: %s",customer.time);
```

```
printf("\nMEETING WITH: %s",customer.name);
                    printf("\nMEETING AT: %s",customer.place);
                    printf("\nDUARATION: %s",customer.duration);
                    printf("\nNOTE: %s",customer.note);
            break;
        default:
            printf("\nYOU TYPED SOMETHING ELSE...\n");
            break;
        printf("\n\nWOULD YOU LIKE TO CONTINUE VIEWING...(Y/N):");
        fflush(stdin);
        scanf("%c",&choice);
   while(choice=='Y'||choice=='y');
   fclose ( fpte );
void editrecord()
    system("cls");
    FILE *fpte ;
    struct record customer;
    char time[6],choice,filename[14];
```

```
int num,count=0;
printf("\n\n\t\t***********************\n");
printf("\t\t* WELCOME TO THE EDITING MENU *");
choice=password();
if(choice!=0)
   printf("\n\tENTER THE DATE OF RECORD TO BE EDITED:[yyyy-mm-dd]:");
   fflush(stdin);
   gets(filename);
   printf("\n\tENTER TIME:[hh:mm]:");
   gets(time);
   fpte = fopen ( filename, "rb+" );
   if ( fpte == NULL )
       printf( "\nRECORD DOES NOT EXISTS:" );
       printf("\nPRESS ANY KEY TO GO BACK");
      getch();
```

```
while ( fread ( &customer, sizeof ( customer ), 1, fpte ) == 1 )
    if(strcmp(customer.time,time)==0)
        printf("\nYOUR OLD RECORD WAS AS:");
        printf("\nTIME: %s",customer.time);
        printf("\nMEETING WITH: %s",customer.name);
        printf("\nMEETING AT: %s",customer.place);
        printf("\nDURATION: %s",customer.duration);
        printf("\nNOTE: %s",customer.note);
        printf("\n\n\t\tWHAT WOULD YOU LIKE TO EDIT..");
        printf("\n1.TIME.");
        printf("\n2.MEETING PERSON.");
        printf("\n3.MEETING PLACE.");
        printf("\n4.DURATION.");
        printf("\n5.NOTE.");
        printf("\n6.WHOLE RECORD.");
        printf("\n7.GO BACK TO MAIN MENU.");
        do
            printf("\n\tENTER YOUR CHOICE:");
            fflush(stdin);
            scanf("%d",&num);
            fflush(stdin);
```

```
switch(num)
    printf("\nENTER THE NEW DATA:");
    printf("\nNEW TIME:[hh:mm]:");
    gets(customer.time);
    break;
case 2:
    printf("\nENTER THE NEW DATA:");
    printf("\nNEW MEETING PERSON:");
    gets(customer.name);
    break;
case 3:
    printf("\nENTER THE NEW DATA:");
    printf("\nNEW MEETING PLACE:");
    gets(customer.place);
    break;
case 4:
    printf("\nENTER THE NEW DATA:");
    printf("\nDURATION:");
    gets(customer.duration);
    break;
case 5:
    printf("ENTER THE NEW DATA:");
    printf("\nNOTE:");
    gets(customer.note);
    break;
```

```
case 6:
        printf("\nENTER THE NEW DATA:");
        printf("\nNEW TIME:[hh:mm]:");
        gets(customer.time);
        printf("\nNEW MEETING PERSON:");
        gets(customer.name);
        printf("\nNEW MEETING PLACE:");
        gets(customer.place);
        printf("\nDURATION:");
        gets(customer.duration);
        printf("\nNOTE:");
        gets(customer.note);
        break;
    case 7:
        printf("\nPRESS ANY KEY TO GO BACK...\n");
        getch();
        return ;
        break;
    default:
        printf("\nYOU TYPED SOMETHING ELSE...TRY AGAIN\n");
        break;
while(num<1||num>8);
fseek(fpte,-sizeof(customer),SEEK_CUR);
fwrite(&customer, sizeof(customer), 1, fpte);
```

```
fseek(fpte,-sizeof(customer),SEEK_CUR);
       fread(&customer, sizeof(customer), 1, fpte);
       choice=5;
       break;
   }
if(choice==5)
   system("cls");
   printf("\n\t\tEDITING COMPLETED...\n");
   printf("----\n");
   printf("THE NEW RECORD IS:\n");
   printf("----\n");
   printf("\nTIME: %s",customer.time);
   printf("\nMEETING WITH: %s",customer.name);
   printf("\nMEETING AT: %s",customer.place);
   printf("\nDURATION: %s",customer.duration);
   printf("\nNOTE: %s",customer.note);
   fclose(fpte);
   printf("\n\n\tWOULD YOU LIKE TO EDIT ANOTHER RECORD.(Y/N)");
   scanf("%c",&choice);
   count++;
}
else
```

```
printf("\nTHE RECORD DOES NOT EXIST::\n");
            printf("\nWOULD YOU LIKE TO TRY AGAIN...(Y/N)");
            scanf("%c",&choice);
    while(choice=='Y'||choice=='y');
    fclose ( fpte );
    if(count==1)
        printf("\n%d FILE IS EDITED...\n",count);
    else if(count>1)
        printf("\n%d FILES ARE EDITED..\n",count);
    else
        printf("\nNO FILES EDITED...\n");
    printf("\tPRESS ENTER TO EXIT EDITING MENU.");
    getch();
int password()
    char pass[15]= {0},check[15]= {0},ch;
    FILE *fpp;
    int i=0,j;
    printf("::FOR SECURITY PURPOSE::");
    printf("::ONLY THREE TRIALS ARE ALLOWED::");
```

```
for(j=0; j<3; j++)
    i=0;
   printf("\n\n\tENTER THE PASSWORD:");
   pass[0]=getch();
   while(pass[i]!='\r')
       if(pass[i]=='\b')
           printf("\b");
           printf(" ");
           printf("\b");
           pass[i]=getch();
           printf("*");
            i++;
           pass[i]=getch();
   pass[i]='\0';
   fpp=fopen("SE","r");
```

```
if (fpp==NULL)
    printf("\nERROR WITH THE SYSTEM FILE...[FILE MISSING]\n");
   getch();
    return 1;
else
    i=0;
while(1)
    ch=fgetc(fpp);
   if(ch==EOF)
        check[i]='\0';
        break;
    check[i]=ch-5;
   i++;
if(strcmp(pass,check)==0)
    printf("\n\n\tACCESS GRANTED...\n");
   return 0;
```

```
else
            printf("\n\n\tWRONG PASSWORD..\n\n\tACCESS DENIED...\n");
   printf("\n\n\t::YOU ENTERED WRONG PASSWORD::YOU ARE NOT ALLOWED TO ACCESS
ANY FILE::\n\n\tPRESS ANY KEY TO GO BACK...");
   getch();
   return 1;
void editpassword()
    system("cls");
   printf("\n");
    char pass[15]= {0},confirm[15]= {0},ch;
    int choice,i,check;
    FILE *fp;
    fp=fopen("SE","rb");
    if(fp==NULL)
        fp=fopen("SE","wb");
        if(fp==NULL)
            printf("SYSTEM ERROR...");
           getch();
```

```
return ;
        fclose(fp);
        printf("\nSYSTEM RESTORED...\nYOUR PASSWORD IS 'ENTER'\n PRESS ENTER T
O CHANGE PASSWORD\n\n");
        getch();
   fclose(fp);
    check=password();
   if(check==1)
        if(check==0)
            i=0;
            choice=0;
            printf("\n\n\tENTER THE NEW PASSWORD:");
            fflush(stdin);
            pass[0]=getch();
            while(pass[i]!='\r')
```

```
if(pass[i]=='\b')
        printf("\b");
        printf(" ");
        printf("\b");
        pass[i]=getch();
    else
        printf("*");
        i++;
        pass[i]=getch();
pass[i]='\0';
i=0;
printf("\n\tCONFIRM PASSWORD:");
confirm[0]=getch();
while(confirm[i]!='\r')
   if(confirm[i]=='\b')
```

```
printf("\b");
        printf(" ");
        printf("\b");
        confirm[i]=getch();
    else
        printf("*");
        i++;
        confirm[i]=getch();
confirm[i]='\0';
if(strcmp(pass,confirm)==0)
   fp=fopen("SE","wb");
   if(fp==NULL)
        printf("\n\t\tSYSTEM ERROR");
        getch();
    i=0;
   while(pass[i]!='\0')
```

```
ch=pass[i];
                    putc(ch+5,fp);
                    i++;
                putc(EOF,fp);
                fclose(fp);
            else
                printf("\n\tTHE NEW PASSWORD DOES NOT MATCH.");
                choice=1;
   while(choice==1);
    printf("\n\n\tPASSWORD CHANGED...\n\n\tPRESS ANY KEY TO GO BACK...");
    getch();
void deleterecord( )
   system("cls");
   FILE *fp,*fptr ;
    struct record file;
   char filename[15],another = 'Y' ,time[10];;
```

```
int choice,check;
    printf("\n\n\t\t****************\n");
    printf("\t\t* WELCOME TO DELETE MENU*");
    printf("\n\t\t**************\n\n");
    check = password();
    if(check==1)
   while ( another == 'Y' )
       printf("\n\n\tHOW WOULD YOU LIKE TO DELETE.");
       printf("\n\n\t#DELETE WHOLE RECORD\t\t\t[1]");
       printf("\n\t#DELETE A PARTICULAR RECORD BY TIME\t[2]");
       do
        {
           printf("\n\t\tENTER YOU CHOICE:");
           scanf("%d",&choice);
           switch(choice)
           case 1:
               printf("\n\tenter the DATE OF RECORD TO BE DELETED:[yyyy-mm-
dd]:");
               fflush(stdin);
```

```
gets(filename);
   fp = fopen (filename, "wb" );
   if ( fp == NULL )
        printf("\nTHE FILE DOES NOT EXISTS");
        printf("\nPRESS ANY KEY TO GO BACK.");
        getch();
        return ;
    }
    fclose(fp);
    remove(filename);
   printf("\nDELETED SUCCESFULLY...");
   break;
case 2:
   printf("\n\tENTER THE DATE OF RECORD:[yyyy-mm-dd]:");
   fflush(stdin);
   gets(filename);
   fp = fopen (filename, "rb" );
   if ( fp == NULL )
        printf("\nTHE FILE DOES NOT EXISTS");
        printf("\nPRESS ANY KEY TO GO BACK.");
        getch();
```

```
}
    fptr=fopen("temp","wb");
    if(fptr==NULL)
        printf("\nSYSTEM ERROR");
        printf("\nPRESS ANY KEY TO GO BACK");
        getch();
        return ;
    }
    printf("\n\tENTER THE TIME OF RECORD TO BE DELETED:[hh:mm]:");
    fflush(stdin);
    gets(time);
    while(fread(&file,sizeof(file),1,fp)==1)
        if(strcmp(file.time,time)!=0)
            fwrite(&file, sizeof(file), 1, fptr);
    fclose(fp);
    fclose(fptr);
    remove(filename);
    rename("temp",filename);
    printf("\nDELETED SUCCESFULLY...");
    break;
default:
```