```
#include<stdio.h>
2 #include<stdlib.h>
3 #include<windows.h>
4 int i,j;
    int main_exit;
    void menu();
    struct date{
8
       int month,day,year;
10
       };
   struct {
       char name[60];
14
       int acc_no,age;
       char address[60];
       char citizenship[15];
       double phone;
18
       char acc_type[10];
       float amt;
       struct date dob;
       struct date deposit;
       struct date withdraw;
24
        }add,upd,check,rem,transaction;
   float interest(float t,float amount,int rate)
        float SI;
       SI=(rate*t*amount)/100.0;
30
       return (SI);
32 }
33 void fordelay(int j)
34 { int i,k;
      for(i=0;i<j;i++)
36
            k=i;
```

```
int choice;
       FILE *ptr;
45
      ptr=fopen("record.dat","a+");
       account_no:
       system("cls");
       49
      printf("\n\nEnter today's date(mm/dd/yyyy):");
       scanf("%d/%d",&add.deposit.month,&add.deposit.day,&add.deposit.year);
       printf("\nEnter the account number:");
       scanf("%d",&check.acc_no);
       while(fscanf(ptr,"%d %s %d/%d/%d %d %s %s %lf %s %f %d/%d/%d\n",&add.acc_no,add.name,&add.dob.month,&add.dob.day,&add.dob.year,&add.age,add.address,add.citizenship,&add.ph
           if (check.acc_no==add.acc_no)
               {printf("Account no. already in use!");
               fordelay(1000000000);
                  goto account_no;
       add.acc_no=check.acc_no;
           printf("\nEnter the name:");
       scanf("%s",add.name);
      printf("\nEnter the date of birth(mm/dd/yyyy):");
       scanf("%d/%d",&add.dob.month,&add.dob.day,&add.dob.year);
       printf("\nEnter the age:");
68
       scanf("%d",&add.age);
69
      printf("\nEnter the address:");
70
       scanf("%s",add.address);
       printf("\nEnter the citizenship number:");
       scanf("%s",add.citizenship);
      printf("\nEnter the phone number: ");
       scanf("%lf",&add.phone);
        printf("\nEnter the amount to deposit:$");
```

39 void new\_acc()

```
scanf("%f",&add.amt);
                                          printf("\nType of account:\n\t\#Saving\n\t\#Fixed1(for 1 year)\n\t\#Fixed2(for 2 years)\n\t\#Fixed3(for 3 years)\n\t\#Fixed3(for 
                                           scanf("%s",add.acc_type);
                                                             fprintf(ptr, "%d %s  %d/%d/%d %d %s  %s  %lf  %s  %f  %d/%d/%d \n", add.acc_no, add.name, add.dob.month, add.dob.day, add.dob.year, add.age, add.address, add.citizenship, add.phone, add.age, add.address, add.citizenship, add.phone, add.age, add.address, add.citizenship, add.phone, add.age, add.address, add.address, add.citizenship, add.phone, add.age, add.address, add.address, add.citizenship, add.acc_no, add.address, add.address, add.citizenship, add.acc_no, add.address, add.add
   83
                                        fclose(ptr);
                                       printf("\nAccount created successfully!");
    85
                                         add_invalid:
                                          printf("\n\n\t\t Enter 1 to go to the main menu and 0 to exit:");
   87
                                       scanf("%d",&main_exit);
                                         system("cls");
    89
                                        if (main_exit==1)
                                                            menu();
                                       else if(main_exit==0)
                                                                              close();
                                         else
                                                                            printf("\nInvalid!\a");
                                                                               goto add_invalid;
   98 }
   99
                     void view_list()
100 {
                                           FILE *view;
                                         view=fopen("record.dat","r");
103
                                        system("cls");
105
                                        printf("\nACC. NO.\tNAME\t\t\tADDRESS\t\t\tPHONE\n");
                                        while(fscanf(view, "%d %s %d/%d/%d %d %s %s %lf %s %f %d/%d/%d", &add.acc_no,add.name, &add.dob.month, &add.dob.day, &add.dob.year, &add.age, add.address, add.citizenship, &add.pho
                                                                         printf("\n%6d\t %10s\t\t%10s\t\t%.01f",add.acc_no,add.name,add.address,add.phone);
                                                                          test++;
                                               }
```

```
if (test==0)
            { system("cls");
                 printf("\nNO RECORDS!!\n");}
         view_list_invalid:
          printf("\n\nEnter 1 to go to the main menu and 0 to exit:");
             scanf("%d",&main_exit);
120
             system("cls");
             if (main_exit==1)
             else if(main_exit==0)
                close();
             else
                 printf("\nInvalid!\a");
                 goto view_list_invalid;
     void edit(void)
         int choice,test=0;
         FILE *old, *newrec;
         old=fopen("record.dat","r");
         newrec=fopen("new.dat","w");
138
         printf("\nEnter the account no. of the customer whose info you want to change:");
         scanf("%d",&upd.acc_no);
         while(fscanf(old,"%d %s %d/%d/%d %d %s %s %lf %s %f %d/%d/%d",&add.acc_no,add.name,&add.dob.month,&add.dob.day,&add.dob.year,&add.age,add.address,add.citizenship,&add.phor
             if (add.acc_no==upd.acc_no)
144
                 printf("\nWhich information do you want to change?\n1.Address\n2.Phone\n\nEnter your choice(1 for address and 2 for phone):");
                 system("cls");
148
                 if(choice==1)
                     {printf("Enter the new address:");
```

fclose(view);

```
scanf("%s",upd.address);
                                                               fprintf(newrec, "%d %s %d/%d/%d %s %s %lf %s %f %d/%d/%d \n", add.acc\_no, add.name, add.dob.month, add.dob.day, add.dob.year, add.age, upd.address, add.citizenship, add.acc\_no, add.name, add.dob.month, add.dob.year, add.acc\_no, add.acc\_no
                                                               system("cls");
                                                               printf("Changes saved!");
                                                   else if(choice==2)
                                                            {
                                                                           printf("Enter the new phone number:");
158
                                                              scanf("%lf",&upd.phone);
                                                              fprintf(newrec,"%d %s %d/%d/%d %d %s %s %lf %s %f %d/%d/%d\n",add.acc_no,add.name,add.dob.month,add.dob.day,add.dob.year,add.age,add.address,add.citizenship,up
160
                                                               system("cls");
                                                               printf("Changes saved!");
                                        else
                                                    fprintf(newrec, "%d %s %d/%d/%d %t %s %s %lf %s %f %d/%d/%d \n", add.acc_no, add.name, add.dob.month, add.dob.day, add.dob.year, add.age, add.address, add.citizenship, add.ph
168
                            fclose(old);
                           fclose(newrec);
170
                           remove("record.dat");
                           rename("new.dat","record.dat");
                if(test!=1)
                                    { system("cls");
                                                   printf("\nRecord not found!!\a\a\a");
                                                       printf("\nEnter 0 to try again,1 to return to main menu and 2 to exit:");
178
                                                         scanf("%d",&main_exit);
                                                       system("cls");
                                                                 if (main_exit==1)
                                                                           menu();
                                                               else if (main_exit==2)
                                                                         close();
                                                               else if(main_exit==0)
```

{printf("Enter the new address:");

```
else
188
                        {printf("\nInvalid!\a");
189
                        goto edit_invalid;}
190
            }
       else
             {printf("\n\nEnter 1 to go to the main menu and 0 to exit:");
             scanf("%d",&main_exit);
194
            system("cls");
           if (main_exit==1)
196
197
198
               menu();
             else
               close();
199
200 }
201
202 void transact(void)
203 { int choice,test=0;
204
        FILE *old,*newrec;
205
        old=fopen("record.dat","r");
206
         newrec=fopen("new.dat","w");
207
208
            printf("Enter the account no. of the customer:");
209
        scanf("%d",&transaction.acc_no);
210
        while (fscanf(old,"%d %s %d/%d/%d %d %s %s %lf %s %f %d/%d/%d",&add.acc_no,add.name,&add.dob.month,&add.dob.day,&add.dob.year,&add.age,add.address,add.citizenship,&add.pho
                 if(add.acc_no==transaction.acc_no)
214
215
                 { test=1;
                     if(strcmpi(add.acc_type,"fixed1")==0||strcmpi(add.acc_type,"fixed2")==0||strcmpi(add.acc_type,"fixed3")==0)
                         printf("\a\a\a\n\nYOU\ CANNOT\ DEPOSIT\ OR\ WITHDRAW\ CASH\ IN\ FIXED\ ACCOUNTS!!!!");
218
219
                        fordelay(1000000000);
                         system("cls");
220
                         menu();
                     printf("\n\nDo vou want to\n1.Deposit\n2.Withdraw?\n\nEnter your choice(1 for deposit and 2 for withdraw):");
```

edit();

```
printf("\\ n\\ nDo\ you\ want\ to\\ n1.Deposit\\ n2.Withdraw?\\ n\\ nEnter\ your\ choice(1\ for\ deposit\ and\ 2\ for\ withdraw):");
                                                                                            scanf("%d",&choice);
                                                                                            if (choice==1)
                                                                                            {
                                                                                                             printf("Enter the amount you want to deposit:$ ");
                                                                                                            scanf("%f",&transaction.amt);
                                                                                                             add.amt+=transaction.amt;
230
                                                                                                            fprintf(newrec, "%d %s %d/%d/%d %s %s %lf %s %f %d/%d/%d \n", add.acc_no, add.name, add.dob.month, add.dob.day, add.dob.year, add.age, add.address, add.citizensland.acc_no, add.acc_no, add.acc_no, add.acc_no, add.dob.month, add.dob.day, add.dob.year, add.age, add.address, add.citizensland.acc_no, add.acc_no, add.ac
                                                                                                            printf("\n\nDeposited successfully!");
                                                                                            }
                                                                                            else
                                                                                            {
                                                                                                             printf("Enter the amount you want to withdraw:$ ");
                                                                                                             scanf("%f",&transaction.amt);
                                                                                                             add.amt-=transaction.amt;
                                                                                                            fprintf(newrec, "%d %s %d/%d/%d %d %s %s %lf %s %f %d/%d/%d n", add.acc_no, add.name, add.dob.month, add.dob.day, add.dob.year, add.age, add.address, add.citizensland.acc_no, add.name, add.dob.month, add.dob.year, add.acc_no, add.acc_n
                                                                                                            printf("\n\nWithdrawn successfully!");
                                                                                            }
                                                                          }
                                                                          else
                                                                          {
                                                                                      fprintf(newrec,"%d %s %d/%d/%d %d %s %s %lf %s %f %d/%d/%d\n",add.acc_no,add.name,add.dob.month,add.dob.day,add.dob.year,add.age,add.address,add.citizenship,ac
                                   fclose(old);
                                    fclose(newrec);
                                     remove("record.dat");
                                   rename("new.dat","record.dat");
                                   if(test!=1)
                                 {
                                                     printf("\n\nRecord not found!!");
                                                   transact invalid:
                                               printf("\n\nEnter 0 to try again,1 to return to main menu and 2 to exit:");
                                                scanf("%d",&main_exit);
```

system("cls");
if (main\_exit==0)

```
transact();
         else if (main_exit==1)
            menu();
         else if (main_exit==2)
            close();
             printf("\nInvalid!");
             goto transact_invalid;
        }
        else
            printf("\nEnter 1 to go to the main menu and 0 to exit:");
             scanf("%d",&main_exit);
             system("cls");
             if (main_exit==1)
278
               menu();
             else
280
               close();
        }
     }
284
     void erase(void)
286
         FILE *old, *newrec;
         int test=0;
288
         old=fopen("record.dat","r");
         newrec=fopen("new.dat","w");
290
        printf("Enter the account no. of the customer you want to delete:");
         scanf("%d",&rem.acc_no);
         while (fscanf(old,"%d %s %d/%d/%d %d %s %s %lf %s %f %d/%d/%d",&add.acc_no,add.name,&add.dob.month,&add.dob.day,&add.dob.year,&add.age,add.address,add.citizenship,&add.pho
294
             if(add.acc_no!=rem.acc_no)
```

fprintf(newrec,"%d %s %d/%d/%d %d %s %s %lf %s %f %d/%d/%d\n",add.acc\_no,add.name,add.dob.month,add.dob.day,add.dob.year,add.age,add.address,add.citizenship,add.ph

if (main\_exit==0)

```
298
                {test++;
299
                printf("\nRecord deleted successfully!\n");
300
301
        fclose(old);
303
        fclose(newrec);
        remove("record.dat");
305
        rename("new.dat","record.dat");
        if(test==0)
307
308
                printf("\nRecord not found!!\a\a\a");
309
                erase_invalid:
                 printf("\nEnter 0 to try again,1 to return to main menu and 2 to exit:");
                 scanf("%d",&main_exit);
                     if (main_exit==1)
                        menu();
                    else if (main_exit==2)
                       close();
                    else if(main_exit==0)
318
                       erase();
                    else
                       {printf("\nInvalid!\a");
320
                        goto erase_invalid;}
        else
324
            {printf("\nEnter 1 to go to the main menu and 0 to exit:");
            scanf("%d",&main_exit);
            system("cls");
           if (main_exit==1)
328
               menu();
            else
330
                close();
333 }
```

```
335 void see(void)
336 {
                          FILE *ptr;
338
                          int test=0,rate;
                         int choice;
340
                         float time;
                         float intrst:
                         ptr=fopen("record.dat","r");
                         printf("Do you want to check by\n1.Account no\n2.Name\nEnter your choice:");
                         scanf("%d",&choice);
                          if (choice==1)
                          { printf("Enter the account number:");
                                     scanf("%d",&check.acc_no);
348
                                     while (fscanf(ptr,"%d %s %d/%d/%d %d %s %s %lf %s %f %d/%d/%d",&add.acc_no,add.name,&add.dob.month,&add.dob.day,&add.dob.year,&add.age,add.address,add.citizenship,&add
350
                                                if(add.acc_no==check.acc_no)
                                                 { system("cls");
                                                           test=1;
                                                           printf("\nAccount N0.:%d\nName:%s \nDOB:%d/%d/%d \nAge:%d \nAddress:%s \nCitizenship No:%s \nPhone number:%.01f \nType Of Account:%s \nAmount deposited:$ %.2f
                                                            add.acc_type,add.amt,add.deposit.month,add.deposit.day,add.deposit.year);
                                                           if(strcmpi(add.acc_type,"fixed1")==0)
358
                                                                      {
                                                                                 time=1.0:
360
                                                                                 intrst=interest(time,add.amt,rate);
                                                                                  printf("\\ \n) nYou\ will\ get\ \$\%. 2f\ as\ interest\ on\ \%d/\%d/\%d", intrst, add. deposit. month, add. deposit. day, add. deposit. year+1);
                                                                      3
                                                            else if(strcmpi(add.acc_type, "fixed2")==0)
                                                                     {
                                                                                  time=2.0;
                                                                                  rate=11:
368
                                                                                  intrst=interest(time,add.amt,rate);
                                                                                  printf("\\ \n\) will get $.\%.2f as interest on $$ \frac{3}{3}$ interest, add.deposit.month, add.deposit.day, add.deposit.year+2); and $$ $ \frac{3}{3}$ interest on $$ \frac{3}{3}$ interest on $\frac{3}{3}$ i
370
                                                                      }
                                                             also if(stremni(add acc type "fived3")==0)
```

```
else if(strcmpi(add.acc_type, "fixed3")==0)
                                            {
                                                        time=3.0;
                                                       rate=13;
                                                       intrst=interest(time,add.amt,rate);
                                                        printf("\\ \n) nYou will get $.\%.2f as interest on $\frac{d}{d}$, intrst, add.deposit.month, add.deposit.day, add.deposit.year+3); 
                                            }
                                    else if(strcmpi(add.acc_type, "saving")==0)
                                                       time=(1.0/12.0);
                                                       intrst=interest(time,add.amt,rate);
                                                       printf("\n\nYou will get $.%.2f as interest on %d of every month",intrst,add.deposit.day);
                                    else if(strcmpi(add.acc_type,"current")==0)
                                           {
                                                       printf("\n\nYou will get no interest\a\a");
                      }
else if (choice==2)
{ printf("Enter the name:");
           scanf("%s",&check.name);
          while (fscanf(ptr,"%d %s %d/%d/%d %d %s %s %lf %s %f %d/%d/%d",&add.acc_no,add.name,&add.dob.month,&add.dob.day,&add.dob.year,&add.age,add.address,add.citizenship,&add.acc_no,add.name,&add.dob.month,&add.dob.day,&add.dob.year,&add.age,add.address,add.citizenship,&add.acc_no,add.name,&add.dob.month,&add.dob.day,&add.dob.year,&add.age,add.address,add.citizenship,&add.acc_no,add.name,&add.dob.month,&add.dob.day,&add.dob.year,&add.age,add.address,add.citizenship,&add.acc_no,add.name,&add.dob.month,&add.dob.day,&add.dob.year,&add.age,add.address,add.citizenship,&add.acc_no,add.name,&add.dob.month,&add.dob.day,&add.dob.year,&add.age,add.address,add.citizenship,&add.acc_no,add.name,&add.address,add.dob.month,&add.dob.day,&add.acc_no,add.acc_no,add.acc_no,add.acc_no,add.acc_no,add.acc_no,add.acc_no,add.acc_no,add.acc_no,add.acc_no,add.acc_no,add.acc_no,add.acc_no,add.acc_no,add.acc_no,add.acc_no,add.acc_no,add.acc_no,add.acc_no,add.acc_no,add.acc_no,add.acc_no,add.acc_no,add.acc_no,add.acc_no,add.acc_no,add.acc_no,add.acc_no,add.acc_no,add.acc_no,add.acc_no,add.acc_no,add.acc_no,add.acc_no,add.acc_no,add.acc_no,add.acc_no,add.acc_no,add.acc_no,add.acc_no,add.acc_no,add.acc_no,add.acc_no,add.acc_no,add.acc_no,add.acc_no,add.acc_no,add.acc_no,add.acc_no,add.acc_no,add.acc_no,add.acc_no,add.acc_no,add.acc_no,add.acc_no,add.acc_no,add.acc_no,add.acc_no,add.acc_no,add.acc_no,add.acc_no,add.acc_no,add.acc_no,add.acc_no,add.acc_no,add.acc_no,add.acc_no,add.acc_no,add.acc_no,add.acc_no,add.acc_no,add.acc_no,add.acc_no,add.acc_no,add.acc_no,add.acc_no,add.acc_no,add.acc_no,add.acc_no,add.acc_no,add.acc_no,add.acc_no,add.acc_no,add.acc_no,add.acc_no,add.acc_no,add.acc_no,add.acc_no,add.acc_no,add.acc_no,add.acc_no,add.acc_no,add.acc_no,add.acc_no,add.acc_no,add.acc_no,add.acc_no,add.acc_no,add.acc_no,add.acc_no,add.acc_no,add.acc_no,add.acc_no,add.acc_no,add.acc_no,add.acc_no,add.acc_no,add.acc_no,add.acc_no,add.acc_no,add.acc_no,add.acc_no,add.acc_no,add.acc_no,add.acc_no,add.acc_no,add.acc_no,add.acc_no,add.acc_no,add.acc_no,a
                       \textbf{if}(\texttt{strcmpi}(\texttt{add.name},\texttt{check.name}) \texttt{==} 0)
                      { system("cls");
                                 test=1;
                                  printf("\nAccount No.:%d\nName:%s \nDOB:%d/%d/%d \nAge:%d \nAddress:%s \nCitizenship No:%s \nPhone number:%.01f \nType Of Account:%s \nAmount deposited:$%.2f
                                  add.acc_type,add.amt,add.deposit.month,add.deposit.day,add.deposit.year);
                                  if(strcmpi(add.acc_type,"fixed1")==0)
```

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402

```
{
      time=1.0;
      intrst=interest(time,add.amt,rate);
       }
else if(strcmpi(add.acc_type,"fixed2")==0)
  {
       time=2.0;
      rate=11;
      intrst=interest(time,add.amt,rate);
      printf("\n\nYou will get $.%.2f as interest on %d/%d/%d",intrst,add.deposit.month,add.deposit.day,add.deposit.year+2);
else if(strcmpi(add.acc_type,"fixed3")==0)
  {
      rate=13;
      intrst=interest(time,add.amt,rate);
       printf("\\ \n) nYou will get $.\%.2f as interest on $$ \frac{d}{d}$ interest, add.deposit.month, add.deposit.day, add.deposit.year+3); 
   }
else if(strcmpi(add.acc_type,"saving")==0)
      time=(1.0/12.0);
      intrst=interest(time,add.amt,rate);
      printf("\\ \n \ will get \$.\%.2f as interest on \%d of every month", intrst, add.deposit.day);
   }
else if(strcmpi(add.acc_type,"current")==0)
                                                         12
      printf("\n\nYou will get no interest\a\a");
    }
```

417

423

433

438

442

```
}
                                                    13
}
 fclose(ptr);
 if(test!=1)
    { system("cls");
       printf("\nRecord not found!!\a\a\a");
       see_invalid:
         printf("\nEnter 0 to try again,1 to return to main menu and 2 to exit:");
         scanf("%d",&main_exit);
         system("cls");
           if (main_exit==1)
              menu();
           else if (main_exit==2)
              close();
           else if(main_exit==0)
              see();
           else
             {
                  system("cls");
                  printf("\nInvalid!\a");
                  goto see_invalid;}
  }
   {printf("\nEnter 1 to go to the main menu and 0 to exit:");
    scanf("%d",&main_exit);}
    if (main_exit==1)
       system("cls");
        menu();
    }
    else
     {
```

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471 472

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475 476

477

478

```
system("cls");
              close();
485
487 }
488
489
490
    void close(void)
491
492
        printf("\n\n\n\C Mini Project is developed by Code With C team!");\\
494
496
    void menu(void)
    { int choice;
498
       system("cls");
       system("color 9");
500
       printf("\n\n\t\tCUSTOMER ACCOUNT BANKING MANAGEMENT SYSTEM");
       printf("\n\n\t\t1.Create new account\n\t\t2.Update information of existing account\n\t\t3.For transactions\n\t\t4.Check the details of existing account\n\t\t5.Removing ex
503
       scanf("%d",&choice);
505
       system("cls");
       switch(choice)
507
           case 1:new_acc();
          break;
510
          case 2:edit();
          break;
           case 3:transact();
           break;
```

518

case 4:see();
break;
case 5:erase();
break;

```
break;
            case 7:close();
520
            break;
        }
527 }
528 int main()
529 {
530 char pa
         char pass[10],password[10]="codewithc";
         int i=0;
         printf("\n\t\tEnter the password to login:");\\
         scanf("%s",pass);
         /*do
536
         //if (pass[i]!=13&&pass[i]!=8)
538
                printf("*");
                 pass[i]=getch();
540
            }
         }while (pass[i]!=13);
         pass[10]='\0';*/
         if (strcmp(pass,password)==0)
            {printf("\n\nPassword Match!\nLOADING");
             for(i=0;i<=6;i++)</pre>
548
                 fordelay(100000000);
                 printf(".");
550
           }
                  system("cls");
                 menu();
           }
         else
           { printf("\n\nWrong password!!\a\a\a");
```

```
system("cls");
                 menu();
             }
         else
                printf("\n\nWrong password!!\a\a\a");
                 login_try:
                 printf("\nEnter 1 to try again and 0 to exit:");
                 scanf("%d",&main_exit);
                 if (main_exit==1)
                        {
                            system("cls");
                           main();
                 else if (main_exit==0)
                        {
                        system("cls");
                        close();}
570
                else
                        {printf("\nInvalid!");
                        fordelay(1000000000);
                        system("cls");
574
                        goto login_try;}
             }
             return 0;
578 }
```