

```

1 #include<stdio.h>
2 #include<stdlib.h>
3 #include<windows.h>
4 int i,j;
5 int main_exit;
6 void menu();
7 struct date{
8     int month,day,year;
9
10 };
11 struct {
12
13     char name[60];
14     int acc_no,age;
15     char address[60];
16     char citizenship[15];
17     double phone;
18     char acc_type[10];
19     float amt;
20     struct date dob;
21     struct date deposit;
22     struct date withdraw;
23
24 }add,upd,check,rem,transaction;
25
26 float interest(float t,float amount,int rate)
27 {
28     float SI;
29     SI=(rate*t*amount)/100.0;
30     return (SI);
31 }
32
33 void fordelay(int j)
34 {
35     int i,k;
36     for(i=0;i<j;i++)
37         k=i;
38 }
39 void new_acc()
40 {
41 {
42     int choice;
43     FILE *ptr;
44
45     ptr=fopen("record.dat","a+");
46     account_no:
47     system("cls");
48     printf("\t\t\t\t\xB2\xB2 ADD RECORD \xB2\xB2\xB2");
49     printf("\n\nEnter today's date(mm/dd/yyyy):");
50     scanf("%d/%d/%d",&add.deposit.month,&add.deposit.day,&add.deposit.year);
51     printf("\nEnter the account number:");
52     scanf("%d",&check.acc_no);
53     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.phone,add.acc_type,&add.amt,&add.deposit.
month,&add.deposit.day,&add.deposit.year)!=EOF)
54     {
55         if (check.acc_no==add.acc_no)
56             {printf("Account no. already in use!");
57             fordelay(1000000000);
58             goto account_no;}
59
60     }
61 }
62 add.acc_no=check.acc_no;
63 printf("\nEnter the name:");
64 scanf("%s",add.name);

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65     printf("\nEnter the date of birth(mm/dd/yyyy):");
66     scanf("%d/%d/%d",&add.dob.month,&add.dob.day,&add.dob.year);
67     printf("\nEnter the age:");
68     scanf("%d",&add.age);
69     printf("\nEnter the address:");
70     scanf("%s",&add.address);
71     printf("\nEnter the citizenship number:");
72     scanf("%s",&add.citizenship);
73     printf("\nEnter the phone number: ");
74     scanf("%lf",&add.phone);
75     printf("\nEnter the amount to deposit:Rs.");
76     scanf("%f",&add.amt);
77     printf("\nType of account:\n\t#Saving\n\t#Current\n\t#Fixed1(for 1 year)\n\t#Fixed2(for 2
years)\n\t#Fixed3(for 3 years)\n\n\tEnter your choice:");
78     scanf("%s",&add.acc_type);
79
80     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.acc_type,add.amt,add.deposit.month,add.
deposit.day,add.deposit.year);
81
82
83     fclose(ptr);
84     printf("\nAccount created successfully!");
85     add_invalid:
86     printf("\n\n\n\t\tEnter 1 to go to the main menu and 0 to exit:");
87     scanf("%d",&main_exit);
88     system("cls");
89     if (main_exit==1)
90         menu();
91     else if(main_exit==0)
92         close();
93     else
94     {
95         printf("\nInvalid!\a");
96         goto add_invalid;
97     }
98 }
99 void view_list()
100 {
101     FILE *view;
102     view=fopen("record.dat","r");
103     int test=0;
104     system("cls");
105     printf("\nACC. NO.\tNAME\t\t\tADDRESS\t\t\tPHONE\n");
106
107     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.phone,add.acc_type,&add.amt,&add.deposit.month
,&add.deposit.day,&add.deposit.year)!=EOF)
108     {
109         printf("\n%6d\t %10s\t\t\t\t%10s\t\t\t%.0lf",add.acc_no,add.name,add.address,add.phone);
110         test++;
111     }
112
113     fclose(view);
114     if (test==0)
115     {
116         system("cls");
117         printf("\nNO RECORDS!!\n");
118     }
119     view_list_invalid:
120     printf("\n\nEnter 1 to go to the main menu and 0 to exit:");
121     scanf("%d",&main_exit);
122     system("cls");
123     if (main_exit==1)
124         menu();
125     else if(main_exit==0)
126         close();

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126         else
127         {
128             printf("\nInvalid!\a");
129             goto view_list_invalid;
130         }
131     }
132     void edit(void)
133     {
134         int choice, test=0;
135         FILE *old, *newrec;
136         old=fopen("record.dat", "r");
137         newrec=fopen("new.dat", "w");
138
139         printf("\nEnter the account no. of the customer whose info you want to change:");
140         scanf("%d", &upd.acc_no);
141         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.phone, add.acc_type, &add.amt, &add.deposit.month, &add.deposit.day, &add.deposit.year) != EOF)
142         {
143             if (add.acc_no==upd.acc_no)
144             {
145                 test=1;
146                 printf("\nWhich information do you want to change?\n1.Address\n2.Phone\n\nEnter your choice(1 for address and 2 for phone):");
147                 scanf("%d", &choice);
148                 system("cls");
149                 if(choice==1)
150                 {
151                     printf("Enter the new address:");
152                     scanf("%s", upd.address);
153                     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, upd.address, add.citizenship, add.phone, add.acc_type, add.amt, add.deposit.month, add.deposit.day, add.deposit.year);
154                     system("cls");
155                     printf("Changes saved!");
156                 }
157                 else if(choice==2)
158                 {
159                     printf("Enter the new phone number:");
160                     scanf("%lf", &upd.phone);
161                     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, upd.phone, add.acc_type, add.amt, add.deposit.month, add.deposit.day, add.deposit.year);
162                     system("cls");
163                     printf("Changes saved!");
164                 }
165             }
166             else
167             {
168                 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.phone, add.acc_type, add.amt, add.deposit.month, add.deposit.day, add.deposit.year);
169             }
170             fclose(old);
171             fclose(newrec);
172             remove("record.dat");
173             rename("new.dat", "record.dat");
174         }
175         if(test!=1)
176         {
177             system("cls");
178             printf("\nRecord not found!!\a\a");
179             edit_invalid:
180             printf("\nEnter 0 to try again, 1 to return to main menu and 2 to exit:");
181             scanf("%d", &main_exit);
182             system("cls");
183             if (main_exit==1)
184             {
185                 menu();
186             }
187         }
188     }
189 }

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183         else if (main_exit==2)
184             close();
185         else if(main_exit==0)
186             edit();
187         else
188             {printf("\nInvalid!\a");
189             goto edit_invalid;}
190     }
191     else
192     {printf("\n\nEnter 1 to go to the main menu and 0 to exit:");
193     scanf("%d",&main_exit);
194     system("cls");
195     if (main_exit==1)
196         menu();
197     else
198         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
211     .dob.day,&add.dob.year,&add.age,add.address,add.citizenship,&add.phone,add.acc_type,&add.amt,&add.deposit.month
212     ,&add.deposit.day,&add.deposit.year)!=EOF)
213     {
214         if(add.acc_no==transaction.acc_no)
215         {   test=1;
216             if(strcmpi(add.acc_type,"fixed1")==0||strcmpi(add.acc_type,"fixed2")==0||strcmpi(add
217     acc_type,"fixed3")==0)
218             {
219                 printf("\a\a\a\n\nYOU CANNOT DEPOSIT OR WITHDRAW CASH IN FIXED ACCOUNTS!!!!");
220                 fordelay(1000000000);
221                 system("cls");
222                 menu();
223             }
224             printf("\n\nDo you want to\n1.Deposit\n2.Withdraw?\n\nEnter your choice(1 for deposit and 2
225     for withdraw):");
226             scanf("%d",&choice);
227             if (choice==1)
228             {
229                 printf("Enter the amount you want to deposit:Rs. ");
230                 scanf("%f",&transaction.amt);
231                 add.amt+=transaction.amt;
232                 fprintf(newrec,"%d %s %d/%d/%d %d %s %s %lf %s %f %d/%d/%d\n",add.acc_no,add.name,add.
233     dob.month,add.dob.day,add.dob.year,add.age,add.address,add.citizenship,add.phone,add.acc_type,add.amt,add.
234     deposit.month,add.deposit.day,add.deposit.year);
235                 printf("\n\nDeposited successfully!");
236             }
237             else
238             {
239                 printf("Enter the amount you want to withdraw:Rs. ");
240                 scanf("%f",&transaction.amt);
241                 add.amt-=transaction.amt;
242                 fprintf(newrec,"%d %s %d/%d/%d %d %s %s %lf %s %f %d/%d/%d\n",add.acc_no,add.name,add.
243     dob.month,add.dob.day,add.dob.year,add.age,add.address,add.citizenship,add.phone,add.acc_type,add.amt,add.
244     deposit.month,add.deposit.day,add.deposit.year);
245                 printf("\n\nWithdrawn successfully!");
246             }
247         }
248     }

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241
242     }
243     else
244     {
245         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.phone, add.acc_type, add.amt, add.deposit.
month, add.deposit.day, add.deposit.year);
246     }
247 }
248 fclose(old);
249 fclose(newrec);
250 remove("record.dat");
251 rename("new.dat", "record.dat");
252 if(test!=1)
253 {
254     printf("\n\nRecord not found!!");
255     transact_invalid:
256     printf("\n\nEnter 0 to try again, 1 to return to main menu and 2 to exit:");
257     scanf("%d", &main_exit);
258     system("cls");
259     if (main_exit==0)
260         transact();
261     else if (main_exit==1)
262         menu();
263     else if (main_exit==2)
264         close();
265     else
266     {
267         printf("\nInvalid!");
268         goto transact_invalid;
269     }
270 }
271 }
272 else
273 {
274     printf("\nEnter 1 to go to the main menu and 0 to exit:");
275     scanf("%d", &main_exit);
276     system("cls");
277     if (main_exit==1)
278         menu();
279     else
280         close();
281 }
282 }
283 }
284 void erase(void)
285 {
286     FILE *old, *newrec;
287     int test=0;
288     old=fopen("record.dat", "r");
289     newrec=fopen("new.dat", "w");
290     printf("Enter the account no. of the customer you want to delete:");
291     scanf("%d", &rem.acc_no);
292     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.phone, add.acc_type, &add.amt, &add.deposit.month
, &add.deposit.day, &add.deposit.year)!=EOF)
293     {
294         if(add.acc_no!=rem.acc_no)
295             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.phone, add.acc_type, add.amt, add.deposit.month,
add.deposit.day, add.deposit.year);
296
297         else
298             {test++;
299             printf("\nRecord deleted successfully!\n");
300             }

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```

301     }
302     fclose(old);
303     fclose(newrec);
304     remove("record.dat");
305     rename("new.dat", "record.dat");
306     if(test==0)
307     {
308         printf("\nRecord not found!!\a\a\a");
309         erase_invalid:
310         printf("\nEnter 0 to try again,1 to return to main menu and 2 to exit:");
311         scanf("%d",&main_exit);
312
313         if (main_exit==1)
314             menu();
315         else if (main_exit==2)
316             close();
317         else if(main_exit==0)
318             erase();
319         else
320             {printf("\nInvalid!\a");
321              goto erase_invalid;}
322     }
323     else
324     {printf("\nEnter 1 to go to the main menu and 0 to exit:");
325      scanf("%d",&main_exit);
326      system("cls");
327      if (main_exit==1)
328          menu();
329      else
330          close();
331     }
332 }
333
334 void see(void)
335 {
336     FILE *ptr;
337     int test=0,rate;
338     int choice;
339     float time;
340     float intrst;
341     ptr=fopen("record.dat","r");
342     printf("Do you want to check by\n1.Account no\n2.Name\nEnter your choice:");
343     scanf("%d",&choice);
344     if (choice==1)
345     { printf("Enter the account number:");
346      scanf("%d",&check.acc_no);
347
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
349 ,&add.dob.day,&add.dob.year,&add.age,add.address,add.citizenship,&add.phone,add.acc_type,&add.amt,&add.deposit.
350 month,&add.deposit.day,&add.deposit.year)!=EOF)
351     {
352         if(add.acc_no==check.acc_no)
353         { system("cls");
354          test=1;
355
356          printf("\nAccount NO.:%d\nName:%s \nDOB:%d/%d/%d \nAge:%d \nAddress:%s \nCitizenship No:%s
357 \nPhone number:%.0lf \nType Of Account:%s \nAmount deposited:Rs. %.2f \nDate Of Deposit:%d/%d/%d\n\n",add.acc_no
358 ,add.name,add.dob.month,add.dob.day,add.dob.year,add.age,add.address,add.citizenship,add.phone,
359 add.acc_type,add.amt,add.deposit.month,add.deposit.day,add.deposit.year);
360          if(strcmpi(add.acc_type,"fixed1")==0)
361          {
362              time=1.0;
363              rate=9;
364              intrst=interest(time,add.amt,rate);
365              printf("\n\nYou will get Rs.%.2f as interest on %d/%d/%d",intrst,add.deposit.month,

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add.deposit.day,add.deposit.year+1);
363     }
364     else if(strcmpi(add.acc_type,"fixed2")==0)
365     {
366         time=2.0;
367         rate=11;
368         intrst=interest(time,add.amt,rate);
369         printf("\n\nYou will get Rs..%.2f as interest on %d/%d/%d",intrst,add.deposit.month
,add.deposit.day,add.deposit.year+2);
370
371     }
372     else if(strcmpi(add.acc_type,"fixed3")==0)
373     {
374         time=3.0;
375         rate=13;
376         intrst=interest(time,add.amt,rate);
377         printf("\n\nYou will get Rs..%.2f as interest on %d/%d/%d",intrst,add.deposit.month
,add.deposit.day,add.deposit.year+3);
378
379     }
380     else if(strcmpi(add.acc_type,"saving")==0)
381     {
382         time=(1.0/12.0);
383         rate=8;
384         intrst=interest(time,add.amt,rate);
385         printf("\n\nYou will get Rs..%.2f as interest on %d of every month",intrst,add.
deposit.day);
386
387     }
388     else if(strcmpi(add.acc_type,"current")==0)
389     {
390
391         printf("\n\nYou will get no interest\n");
392
393     }
394
395 }
396 }
397 }
398 else if (choice==2)
399 { printf("Enter the name:");
400   scanf ("%s",&check.name);
401   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.phone,add.acc_type,&add.amt,&add.deposit.
month,&add.deposit.day,&add.deposit.year)!=EOF)
402   {
403       if(strcmpi(add.name,check.name)==0)
404       {   system("cls");
405           test=1;
406           printf("\nAccount No.:%d\nName:%s \nDOB:%d/%d/%d \nAge:%d \nAddress:%s \nCitizenship No:%s
\nPhone number:%.0lf \nType Of Account:%s \nAmount deposited:Rs..%.2f \nDate Of Deposit:%d/%d/%d\n\n",add.acc_no,
add.name,add.dob.month,add.dob.day,add.dob.year,add.age,add.address,add.citizenship,add.phone,
add.acc_type,add.amt,add.deposit.month,add.deposit.day,add.deposit.year);
407           if(strcmpi(add.acc_type,"fixed1")==0)
408           {
409               time=1.0;
410               rate=9;
411               intrst=interest(time,add.amt,rate);
412               printf("\n\nYou will get Rs..%.2f as interest on %d/%d/%d",intrst,add.deposit.month
,add.deposit.day,add.deposit.year+1);
413
414           }
415           else if(strcmpi(add.acc_type,"fixed2")==0)
416           {
417               time=2.0;
418               rate=11;
419               intrst=interest(time,add.amt,rate);

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420             printf("\n\nYou will get Rs..%.2f as interest on %d/%d/%d",intrst,add.deposit.month
,add.deposit.day,add.deposit.year+2);
421
422         }
423         else if(strcmpi(add.acc_type,"fixed3")==0)
424         {
425             time=3.0;
426             rate=13;
427             intrst=interest(time,add.amt,rate);
428             printf("\n\nYou will get Rs..%.2f as interest on %d/%d/%d",intrst,add.deposit.month
,add.deposit.day,add.deposit.year+3);
429
430         }
431         else if(strcmpi(add.acc_type,"saving")==0)
432         {
433             time=(1.0/12.0);
434             rate=8;
435             intrst=interest(time,add.amt,rate);
436             printf("\n\nYou will get Rs..%.2f as interest on %d of every month",intrst,add.
deposit.day);
437
438         }
439         else if(strcmpi(add.acc_type,"current")==0)
440         {
441
442             printf("\n\nYou will get no interest\n\n");
443
444         }
445
446     }
447 }
448 }
449
450
451 fclose(ptr);
452 if(test!=1)
453 {
454     system("cls");
455     printf("\nRecord not found!!\n\n");
456     see_invalid:
457     printf("\nEnter 0 to try again,1 to return to main menu and 2 to exit:");
458     scanf("%d",&main_exit);
459     system("cls");
460     if (main_exit==1)
461         menu();
462     else if (main_exit==2)
463         close();
464     else if(main_exit==0)
465         see();
466     else
467     {
468         system("cls");
469         printf("\nInvalid!\n");
470         goto see_invalid;}
471 }
472 else
473 {printf("\nEnter 1 to go to the main menu and 0 to exit:");
474 scanf("%d",&main_exit);}
475 if (main_exit==1)
476 {
477     system("cls");
478     menu();
479 }
480 else
481 {

```



```

483         system("cls");
484         close();
485     }
486
487 }
488
489
490 void close(void)
491 {
492     printf("\n\n\nThis C Mini Project is developed by Code With C team!");
493 }
494
495
496 void menu(void)
497 {     int choice;
498     system("cls");
499     system("color 0");
500     printf("\n\n\t\tCUSTOMER ACCOUNT BANKING MANAGEMENT SYSTEM");
501     printf("\n\n\n\t\t\xB2\xB2\xB2\xB2\xB2\xB2\xB2 WELCOME TO THE MAIN MENU \xB2\xB2\xB2\xB2\xB2\xB2"
);
502     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 existing account\n\t\t6.View
customer's list\n\t\t7.Exit\n\n\n\t\t Enter your choice:");
503     scanf("%d",&choice);
504
505     system("cls");
506     switch(choice)
507     {
508         case 1:new_acc();
509         break;
510         case 2:edit();
511         break;
512         case 3:transact();
513         break;
514         case 4:see();
515         break;
516         case 5:erase();
517         break;
518         case 6:view_list();
519         break;
520         case 7:close();
521         break;
522
523     }
524
525
526
527 }
528 int main()
529 {
530     char pass[20],password[20]="SRM";
531     int i=0;
532     printf("\n\n\t\tEnter the password to login:");
533     scanf("%s",pass);
534     /*do
535     {
536         //if (pass[i]!=13&&pass[i]!=8)
537         {
538             printf("*");
539             pass[i]=getch();
540             i++;
541         }
542     }while (pass[i]!=13);
543     pass[10]='\0';*/
544     if (strcmp(pass,password)==0)
545         {printf("\n\nPassword Match!\nLOADING");

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```

546     for(i=0;i<=6;i++)
547     {
548         fordelay(100000000);
549         printf(".");
550     }
551     system("cls");
552     menu();
553 }
554 else
555 {
556     printf("\n\nWrong password!!\a\a\a");
557     login_try:
558     printf("\nEnter 1 to try again and 0 to exit:");
559     scanf("%d",&main_exit);
560     if (main_exit==1)
561     {
562         system("cls");
563         main();
564     }
565
566     else if (main_exit==0)
567     {
568         system("cls");
569         close();}
570     else
571     {printf("\nInvalid!");
572     fordelay(1000000000);
573     system("cls");
574     goto login_try;}
575
576 }
577 return 0;
578 }

```