```c
#include<stdio.h>
#include<stdlib.h>
#include<windows.h>
int i,j;
int main_exit;
void menu();
struct date{
    int month,day,year;

    };
struct {

    char name[60];
    int acc_no,age;
    char address[60];
    char citizenship[15];
    double phone;
    char acc_type[10];
    float amt;
    struct date dob;
    struct date deposit;
    struct date withdraw;

    }add,upd,check,rem,transaction;

float interest(float t,float amount,int rate)
{
    float SI;
    SI=(rate*t*amount)/100.0;
    return (SI);

}
void fordelay(int j)
{   int i,k;
    for(i=0;i<j;i++)
        k=i;
}

void new_acc()

{
    int choice;
    FILE *ptr;
```

```c
ptr=fopen("record.dat","a+");
account_no:
system("cls");
printf("\t\t\t\xB2\xB2\xB2\ ADD RECORD  \xB2\xB2\xB2\xB2");
printf("\n\n\nEnter today's date(mm/dd/yyyy):");
scanf("%d/%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.phone,add.acc_type,&add.amt,&add.deposit.month,&add.de
posit.day,&add.deposit.year)!=EOF)
   {
      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/%d",&add.dob.month,&add.dob.day,&add.dob.year);
   printf("\nEnter the age:");
   scanf("%d",&add.age);
   printf("\nEnter the address:");
   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:$");
   scanf("%f",&add.amt);
   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:");
   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.ad
dress,add.citizenship,add.phone,add.acc_type,add.amt,add.deposit.month,add.deposit.day,add.
```

```c
                deposit.year);


        fclose(ptr);
        printf("\nAccount created successfully!");
        add_invalid:
        printf("\n\n\n\t\tEnter 1 to go to the main menu and 0 to exit:");
        scanf("%d",&main_exit);
        system("cls");
        if (main_exit==1)
            menu();
        else if(main_exit==0)
                close();
        else
          {
              printf("\nInvalid!\a");
              goto add_invalid;
          }
}
void view_list()
{
        FILE *view;
        view=fopen("record.dat","r");
        int test=0;
        system("cls");
        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,a
dd.address,add.citizenship,&add.phone,add.acc_type,&add.amt,&add.deposit.month,&add.dep
osit.day,&add.deposit.year)!=EOF)
          {
              printf("\n%6d\t %10s\t\t\t%10s\t\t%.0lf",add.acc_no,add.name,add.address,add.phone);
              test++;
          }

        fclose(view);
        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:");
```

```c
        scanf("%d",&main_exit);
        system("cls");
        if (main_exit==1)
            menu();
        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");

    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,a
dd.address,add.citizenship,&add.phone,add.acc_type,&add.amt,&add.deposit.month,&add.dep
osit.day,&add.deposit.year)!=EOF)
    {
        if (add.acc_no==upd.acc_no)
        {   test=1;
            printf("\nWhich information do you want to change?\n1.Address\n2.Phone\n\nEnter your
choice(1 for address and 2 for phone):");
            scanf("%d",&choice);
            system("cls");
            if(choice==1)
                {printf("Enter the new address:");
                scanf("%s",upd.address);
                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.ad
dress,add.citizenship,add.phone,add.acc_type,add.amt,add.deposit.month,add.deposit.day,add.
deposit.year);
                system("cls");
                printf("Changes saved!");
                }
            else if(choice==2)
```

```c
            {
                printf("Enter the new phone number:");
                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.ad
dress,add.citizenship,upd.phone,add.acc_type,add.amt,add.deposit.month,add.deposit.day,add.
deposit.year);
                system("cls");
                printf("Changes saved!");
                }


        }
        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.ad
dress,add.citizenship,add.phone,add.acc_type,add.amt,add.deposit.month,add.deposit.day,add.
deposit.year);
    }
    fclose(old);
    fclose(newrec);
    remove("record.dat");
    rename("new.dat","record.dat");

if(test!=1)
        {   system("cls");
            printf("\nRecord not found!!\a\a\a");
            edit_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)
                    edit();
                else
                    {printf("\nInvalid!\a");
                    goto edit_invalid;}
        }
    else
        {printf("\n\n\nEnter 1 to go to the main menu and 0 to exit:");
```

```c
        scanf("%d",&main_exit);
        system("cls");
        if (main_exit==1)
           menu();
        else
           close();
        }
}

void transact(void)
{   int choice,test=0;
    FILE *old,*newrec;
    old=fopen("record.dat","r");
    newrec=fopen("new.dat","w");

        printf("Enter the account no. of the customer:");
    scanf("%d",&transaction.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,a
dd.address,add.citizenship,&add.phone,add.acc_type,&add.amt,&add.deposit.month,&add.dep
osit.day,&add.deposit.year)!=EOF)
   {

         if(add.acc_no==transaction.acc_no)
         {   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!!!!!");
                fordelay(1000000000);
                system("cls");
                menu();

            }
            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);
```

```c
                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.ad
dress,add.citizenship,add.phone,add.acc_type,add.amt,add.deposit.month,add.deposit.day,add.
deposit.year);
                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.ad
dress,add.citizenship,add.phone,add.acc_type,add.amt,add.deposit.month,add.deposit.day,add.
deposit.year);
                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.ad
dress,add.citizenship,add.phone,add.acc_type,add.amt,add.deposit.month,add.deposit.day,add.
deposit.year);
        }
    }
    fclose(old);
    fclose(newrec);
    remove("record.dat");
    rename("new.dat","record.dat");
    if(test!=1)
    {
        printf("\n\nRecord not found!!");
        transact_invalid:
        printf("\n\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();
```

```c
    else if (main_exit==2)
      close();
    else
    {
      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)
        menu();
      else
        close();
    }

}
void erase(void)
{
   FILE *old,*newrec;
   int test=0;
   old=fopen("record.dat","r");
   newrec=fopen("new.dat","w");
   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,a
dd.address,add.citizenship,&add.phone,add.acc_type,&add.amt,&add.deposit.month,&add.dep
osit.day,&add.deposit.year)!=EOF)
  {
     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.ad
dress,add.citizenship,add.phone,add.acc_type,add.amt,add.deposit.month,add.deposit.day,add.
deposit.year);

     else
        {test++;
        printf("\nRecord deleted successfully!\n");
```

```c
                }
        }
        fclose(old);
        fclose(newrec);
        remove("record.dat");
        rename("new.dat","record.dat");
        if(test==0)
            {
                printf("\nRecord not found!!\a\a\a");
                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)
                        erase();
                    else
                        {printf("\nInvalid!\a");
                        goto erase_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)
                menu();
            else
                close();
            }

}

void see(void)
{
    FILE *ptr;
    int test=0,rate;
    int choice;
    float time;
    float intrst;
    ptr=fopen("record.dat","r");
```

```c
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);

    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,a
dd.address,add.citizenship,&add.phone,add.acc_type,&add.amt,&add.deposit.month,&add.dep
osit.day,&add.deposit.year)!=EOF)
    {
        if(add.acc_no==check.acc_no)
        {   system("cls");
            test=1;

            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:$ %.2f
\nDate Of
Deposit:%d/%d/%d\n\n",add.acc_no,add.name,add.dob.month,add.dob.day,add.dob.year,add.a
ge,add.address,add.citizenship,add.phone,
            add.acc_type,add.amt,add.deposit.month,add.deposit.day,add.deposit.year);
            if(strcmpi(add.acc_type,"fixed1")==0)
            {
                time=1.0;
                rate=9;
                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);
            }
            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)
            {
                time=3.0;
                rate=13;
                intrst=interest(time,add.amt,rate);
```

```c
                printf("\n\nYou will get $.%.2f as interest on
%d/%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);
            rate=8;
            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,a
dd.address,add.citizenship,&add.phone,add.acc_type,&add.amt,&add.deposit.month,&add.dep
osit.day,&add.deposit.year)!=EOF)
      {
          if(strcmpi(add.name,check.name)==0)
          {   system("cls");
              test=1;
              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:$%.2f
\nDate Of
Deposit:%d/%d/%d\n\n",add.acc_no,add.name,add.dob.month,add.dob.day,add.dob.year,add.a
ge,add.address,add.citizenship,add.phone,
          add.acc_type,add.amt,add.deposit.month,add.deposit.day,add.deposit.year);
              if(strcmpi(add.acc_type,"fixed1")==0)
                {
                    time=1.0;
```

```c
                rate=9;
                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);
            }
        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)
           {
               time=3.0;
               rate=13;
               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+3);

           }
        else if(strcmpi(add.acc_type,"saving")==0)
           {
               time=(1.0/12.0);
               rate=8;
               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");

           }

        }
     }
   }
```

```c
    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;}
        }
     else
        {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
          {

           system("cls");
           close();
          }

}


void close(void)
{
    printf("\n\n\n\nThis C Mini Project is developed by Code With C team!");
```

```c
    }


void menu(void)
{   int choice;
    system("cls");
    system("color 9");
    printf("\n\n\t\t\tCUSTOMER ACCOUNT BANKING MANAGEMENT SYSTEM");
    printf("\n\n\n\t\t\t\xB2\xB2\xB2\xB2\xB2\xB2\xB2 WELCOME TO THE MAIN MENU
\xB2\xB2\xB2\xB2\xB2\xB2\xB2");
    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\n\t\t Enter your choice:");
    scanf("%d",&choice);

    system("cls");
    switch(choice)
    {
        case 1:new_acc();
        break;
        case 2:edit();
        break;
        case 3:transact();
        break;
        case 4:see();
        break;
        case 5:erase();
        break;
        case 6:view_list();
        break;
        case 7:close();
        break;

    }



}
int main()
{
    char pass[10],password[10]="codewithc";
    int i=0;
    printf("\n\n\t\tEnter the password to login:");
```

```c
scanf("%s",pass);
/*do
{
//if (pass[i]!=13&&pass[i]!=8)
    {
        printf("*");
        pass[i]=getch();
        i++;
    }
}while (pass[i]!=13);
pass[10]='\0';*/
if (strcmp(pass,password)==0)
    {printf("\n\nPassword Match!\nLOADING");
    for(i=0;i<=6;i++)
    {
        fordelay(100000000);
        printf(".");
    }
        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();}
        else
            {printf("\nInvalid!");
            fordelay(1000000000);
            system("cls");
            goto login_try;}
```

```
        }
        return 0;
}
```