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BATCH: 12

BRANCH: CS

SEMESTER-1A

PROJECT: BANKING MANAGEMENT SYSTEM.

SUBJECT: ESFP-1.

COLLEGE: ICT GANTPAT UNIVERSITY

CODE:

```
#include<stdio.h>
```

```
#include<stdlib.h>
```

```
#include<windows.h>
```

```
int i,j;
```

```
int main_exit;
```

```
void menu();
```

```
struct date{
```

```
    int month,day,year;
```

```
};
```

```
struct close{
```

```
    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;
```

```
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,ad
d.address,add.citizenship,&add.phone,add.acc_type,&add.amt,&add.deposit.month,&add.deposit.d
ay,&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.address,add.citizenship,add.phone,add.acc_type,add.amt,add.deposit.month,add.deposit.day,add.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,&add.
address,&add.citizenship,&add.phone,&add.acc_type,&add.amt,&add.deposit.month,&add.deposit.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:");

```

```

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,&add.
address,&add.citizenship,&add.phone,&add.acc_type,&add.amt,&add.deposit.month,&add.deposit.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.address,
&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)

                {

                    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.address,
&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.address,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\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 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,add.
address,add.citizenship,&add.phone,add.acc_type,&add.amt,&add.deposit.month,&add.deposit.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,"fi
xed3")==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);

        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.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.address,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.address,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\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();
        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,add.
address,add.citizenship,&add.phone,add.acc_type,&add.amt,&add.deposit.month,&add.deposit.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.address,
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");
    }
}
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");
    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,add.
address,add.citizenship,&add.phone,add.acc_type,&add.amt,&add.deposit.month,&add.deposit.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.age,
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);

    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\n");
```

```
}
```

```
}
```

```
}
```

```
}
```

```
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.phone,add.acc_type,&add.amt,&add.deposit.month,&add.deposit.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.age,
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);

        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\n");

}

}

}

}

```

```

fclose(ptr);
if(test!=1)
{
    system("cls");
    printf("\nRecord not found!!\n");
    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!\n");
        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!");
}

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\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\tEnter 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]="12345";
```

```
int i=0;
```

```
printf("\n\n\t\tEnter the password to login:");
```

```
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;
}
```