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PPS- Mini Project

BANKING SYSTEM

Problem Definition:

Although the basic type of services offered by a bank depends upon the type of bank and the country, services provided usually include: Taking deposits from their customers and issuing current or checking accounts and savings accounts to individuals and business. Extending loans to individuals and business.

Objective: To project scope of a banking system

Code:

```
#include <stdio.h>
#include <stdlib.h>
#include <string.h>
#include<math.h>
int find_the_loan(int p,int t,float r){
    float a;
    a=(p*t*r/100)+p;
    return a;
};
int CI(int p,int t,float r){
    float ci;
    ci = p* (pow((1 + r / 100), t));
```

```
return ci;
```

```
};
```

```
int main()
```

```
{  char fname[100],lname[100];
```

```
    int  i, num,dd,mm,yy;
```

```
    char s[10],phonenumber[100],accno[100];
```

```
    float w=0;
```

```
    char yesorno[10];
```

```
    int bankno,principle,t;
```

```
    float r;
```

```
    FILE *fptr;
```

```
    printf("::: WELCOME TO OUR BANK :::\nEnter date in dd mm yy format :");
```

```
        scanf("%d %d %d",&dd,&mm,&yy);
```

```
    printf("Enter number of people: ");
```

```
    scanf("%d", &num);
```

```
    fptr = (fopen("student.txt", "a+"));
```

```
    fprintf(fptr,"\ndate : %d/%d/%d",dd, mm, yy);
```

```
    for(i = 0; i < num; ++i)
```

```
    {
```

```
        printf("\nFor person%d\nEnter first name : ", i+1);
```

```
        scanf("%s", fname);
```

```
        printf("Enter last name : ", i+1);
```

```
        scanf("%s", lname);
```

```
        printf("Enter 6 digit accno: ");goto sub;
```

```
        sub:scanf("%s", &accno);
```

```

if (strlen(accno)!=6)
{
    printf("plzz enter proper acc number :");goto sub;
}
else{
    printf("Enter your phone no. : ");goto money;
    money:scanf("%s", &phonenumber);
    if (strlen(phonenumber)!=10)
    {
        printf("plzz enter the correct number");goto money;
    }
    else{

        printf("Do you want any loan :(y/n)");
        scanf("%s",yesorno);
        if (yesorno[0]=='y')
        {

            printf("what kind of loan do u want choose the particular
number\n1.House Loan\n2.Car Loan\n3.property Loan\n4.Student
Loan\n5.Small Business Loan\n6.Home innovation loans\n7.Agriculture
loans\n8.Gold Loan\n9.Personal loan\n10.credit card loan\n11.Payday
loan\nPlease enter your requirement :");

            goto banks;
            banks: scanf("%d",&bankno);

            switch(bankno){

```

```

        case 1: r=8.65;
            break;
        case 2: r=10.75;
            break;
        case 3: r=9.35;
            break;
        case 4: r=15.5;
            break;
        case 5: r=13.0;
            break;
        case 6: r=8.0;
            break;
        case 7: r=7.5;
            break;
        case 8: r=8.4;
            break;
        case 9: r=9.0;
            break;
        case 10: r=11.30;
            break;
        case 11: r=7.5;
            break;

        default: printf("please choose aproppriate number  :");goto
banks;

            break;
    }

```

```

        printf("\nNote: if your required amount is more than 10lakh
\nthen the intrest will be shifted to compound intrest.\nEnter the
amount :");scanf("%d",&principle);

        printf("Enter the time in year :");scanf("%d",&t);

```

```

//printf("%.2f",r);
if(principle<1000000){
    w=find_the_loan(principle,t,r);
    printf("\n The amount you need to pay in total by the end of
your term : %.2f",w);}

else{
    w=CI(principle,t,r);
    printf("\n The amount you need to pay in total by the end of
your term : %.2f",w);}

}
else{
    printf("No problem ur loan amount will be zero");
    w=0;
}

fprintf(fptr,"\naccountno. :%d\nName: %s %s \nYour Phone number=%d
\nloan :%.2f\n",accno, fname,lname, phonenumber, w);
} }}

```

```

fclose(fptr);

```

```

return 0;

```

```

}

```

Input/output:

Windows PowerShell

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Install the latest PowerShell for new features and improvements! <https://aka.ms/PSWindows>

```
PS D:\html ddd> cd "d:\c_programs\" ; if ($?) { gcc finalminiproject.c -o finalminiproject } ; if ($?) {  
.\finalminiproject }
```

::: WELCOME TO OUR BANK :::

Enter date in dd mm yy format :12 12 12

Enter number of people: 1

For person1

Enter first name : rohan

Enter last name : gupta

Enter 6 digit accno: 214365

Enter your phone no. : 8073302254

Do you want any loan :(y/n)y

what kind of loan do u want choose the particular number

1.House Loan

2.Car Loan

3.property Loan

4.Student Loan

5.Small Business Loan

6.Home innovation loans

7.Agriculture loans

8.Gold Loan

9. Personal loan

10. credit card loan

11. Payday loan

Please enter your requirement :12

please choose appropriate number :10

Note: if your required amount is more than 10lakh
then the interest will be shifted to compound interest.

Enter the amount :100000

Enter the time in year :3

The amount you need to pay in total by the end of your term : 133900.00

```
PS D:\c_programs> cd "d:\c_programs\" ; if ($?) { gcc finalminiproject.c -o finalminiproject } ; if ($?) {  
.\finalminiproject }
```

::: WELCOME TO OUR BANK :::

Enter date in dd mm yy format :10 10 20

Enter number of people: 2

For person1

Enter first name : jojo

Enter last name : kaustub

Enter 6 digit accno: 987654

Enter your phone no. : 9835225959

Do you want any loan :(y/n)n

No problem ur loan amount will be zero

For person2

Enter first name : dron

Enter last name : gupta

Enter 6 digit accno: 876543

Enter your phone no. : 6136236457

Do you want any loan :(y/n)y

what kind of loan do u want choose the particular number

1.House Loan

2.Car Loan

3.property Loan

4.Student Loan

5.Small Business Loan

6.Home innovation loans

7.Agriculture loans

8.Gold Loan

9.Personal loan

10.credit card loan

11.Payday loan

Please enter your requirement :2

Note: if your required amount is more than 10lakh

then the intrest will be shifted to compound intrest.

Enter the amount :10000000

Enter the time in year :10

The amount you need to pay in total by the end of your term : 27761144.00 (output).

PS D:\c_programs>

File:

Student.txt:

(as saved in a file named student in the desktop).

date : 12/12/12

accountno. :6421862

Name: rohan gupta

Your Phone number=6421962

loan :133900.00

date : 10/10/20

accountno. :6421862

Name: jojo kaustub

Your Phone number=6421962

loan :0.00

accountno. :6421862

Name: dron gupta

Your Phone number=6421962

loan :27761144.00

FLOW CHART





