**Assignment 6 Program 1**

Source Code :

#include <iostream.h>

#include <stdio.h>

#include <string.h>

#include <conio.h>

#include <stdlib.h>

struct date

{

int dd;

int mm;

int yy;

};

struct employee

{

char empnum[11];

char empnam[32];

date datjoin;

float basal;

float ale;

float ded;

float netsal;

};

void create\_array(employee a[], int n)

{

int i;

cout<<"You are now creating a new database. Input the required details as prompted :"<<endl<<endl;

for (i=0;i<n;i++)

{

cout<<"Input the number corresponding to employee "<<(i + 1)<<" :"<<endl;

gets(a[i].empnum);

cout<<"Input the name of employee "<<(i + 1)<<" :"<<endl;

gets(a[i].empnam);

cout<<"Input the date of join of employee "<<(i + 1)<<" in dd/mm/yy format :"<<endl;

cout<<"dd : "; cin>>a[i].datjoin.dd;

cout<<"mm : "; cin>>a[i].datjoin.mm;

cout<<"yy : "; cin>>a[i].datjoin.yy;

cout<<"Input the basic salary of employee "<<(i + 1)<<" :"<<endl;

cin>>a[i].basal;

a[i].ale = a[i].basal \* 0.5;

a[i].ded = a[i].basal \* 0.15;

a[i].netsal = a[i].basal + a[i].ale - a[i].ded;

}

cout<<"Database initialisation complete..."<<endl;

}

void display\_any(employee a[], int n, char empnum[])

{

int i;

for (i=0;i<n;i++)

{

if(strcmpi(a[i].empnum,empnum) == 0)

{

cout<<"The requested employee details are given below ..."<<endl;

cout<<endl;

cout<<"\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_"<<endl;

cout<<endl;

cout<<"Employee Number : "; puts(a[i].empnum);

cout<<"Employee Name : "; puts(a[i].empnam);

cout<<"Date of join : "<<a[i].datjoin.dd<<"/"<<a[i].datjoin.mm<<"/"<<a[i].datjoin.yy<<endl;

cout<<"Basic Salary : "<<a[i].basal<<endl;

cout<<"Allowance : "<<a[i].ale<<endl;

cout<<"Deduction : "<<a[i].ded<<endl<<endl;

cout<<"\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_"<<endl;

cout<<"Net Salary : "<<a[i].netsal<<endl;

cout<<"\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_"<<endl;

cout<<endl;

}

}

}

void display\_all(employee a[], int n)

{

int i;

clrscr();

cout<<"All employee details will now be printed ... "<<endl<<endl;

/\* for (i=0;i<n;i++)

{

cout<<endl;

cout<<"\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_"<<endl;

cout<<endl;

cout<<"Employee Number : "; puts(a[i].empnum);

cout<<"Employee Name : "; puts(a[i].empnam);

cout<<"Date of join : "<<a[i].datjoin.dd<<"/"<<a[i].datjoin.mm<<"/"<<a[i].datjoin.yy<<endl;

cout<<"Basic Salary : "<<a[i].basal<<endl;

cout<<"Allowance : "<<a[i].ale<<endl;

cout<<"Deduction : "<<a[i].ded<<endl<<endl;

cout<<"\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_"<<endl;

cout<<"Net Salary : "<<a[i].netsal<<endl;

cout<<"\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_"<<endl;

cout<<endl;

} \*/

gotoxy(1,1);cout<<"Employee Number";

gotoxy(15,1);cout<<"Employee Name";

gotoxy(35,1);cout<<"Date of join";

gotoxy(50,1);cout<<"Basic Salary";

gotoxy(70,1);cout<<"Net Salary";

gotoxy(1,2);

cout<<"\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_";

for(i=0;i<n;i++)

{

gotoxy(1,i+3);cout<<a[i].empnum;

gotoxy(15,i+3);cout<<a[i].empnam;

gotoxy(35,i+3);cout<<a[i].datjoin.dd<<"/"<<a[i].datjoin.mm<<"/"<<a[i].datjoin.yy;

gotoxy(50,i+3);cout<<a[i].basal;

gotoxy(70,i+3);cout<<a[i].netsal;

}

cout<<endl;

}

void modify(employee a[], int n)

{

int i;

for(i=0;i<n;i++)

{

a[i].basal = (a[i].basal \* 0.05) + a[i].basal;

a[i].ale = a[i].basal \* 0.5;

a[i].ded = a[i].basal \* 0.15;

a[i].netsal = a[i].basal + a[i].ale - a[i].ded;

}

}

void main()

{

employee a[5];

int acap = 5, ch;

char empnum[11];

do

{

clrscr();

cout<<"Current database capacity : 5 entries (Contact the moderator for more information on this)"<<endl<<endl;

cout<<"Menu"<<endl<<endl;

cout<<"1. Data entry"<<endl;

cout<<"2. Display a specific entry"<<endl;

cout<<"3. Display all entries"<<endl;

cout<<"4. Modify basic salary"<<endl;

cout<<"5. Exit program"<<endl<<endl;

cout<<"Enter the number corresponding to your choice :"<<endl;

cin>>ch;

switch(ch)

{

case 1:

create\_array(a, acap);

break;

case 2:

cout<<"Enter the employee number of the required entry : ";

gets(empnum);

display\_any(a, acap, empnum);

break;

case 3:

display\_all(a, acap);

break;

case 4:

modify(a, acap);

break;

case 5:

exit(0);

break;

default:

cout<<"Invalid entry. Start over"<<endl;

}

cout<<"Press any key to continue..."<<endl;

getch();

}while(1);

}

Output(s) :

1 :

Current database capacity : 5 entries (Contact the moderator for more informatio

n on this)

Menu

1. Data entry

2. Display a specific entry

3. Display all entries

4. Modify basic salary

5. Exit program

Enter the number corresponding to your choice :

2

Enter the employee number of the required entry : ACC\_89\_001

The requested employee details are given below ...

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_

Employee Number : ACC\_89\_001

Employee Name : Ragavendar T S

Date of join : 12/12/98

Basic Salary : 12000

Allowance : 6000

Deduction : 1800

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_

Net Salary : 16200

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_

Press any key to continue...

2 :

Employee NumbeEmployee Nameow be pDate of join Basic Salary Net Salary

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

ACC\_89\_001 Ragavendar T S 12/12/98 12000 16200

STO\_89\_001 Murugesan M 6/7/97 10000 13500

STO\_89\_002 Uday K 13/5/99 15000 20250

ACC\_89\_002 Rajeswari R 20/6/98 25000 33750

HR\_89\_001 Vimal Prasad 18/7/99 20000 27000

Press any key to continue...

3 :

Current database capacity : 5 entries (Contact the moderator for more informatio

n on this)

Menu

1. Data entry

2. Display a specific entry

3. Display all entries

4. Modify basic salary

5. Exit program

Enter the number corresponding to your choice :

4

Press any key to continue...

4 :

Employee NumbeEmployee Nameow be pDate of join Basic Salary Net Salary

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

ACC\_89\_001 Ragavendar T S 12/12/98 12600 17010

STO\_89\_001 Murugesan M 6/7/97 10500 14175

STO\_89\_002 Uday K 13/5/99 15750 21262.5

ACC\_89\_002 Rajeswari R 20/6/98 26250 35437.5

HR\_89\_001 Vimal Prasad 18/7/99 21000 28350

Press any key to continue...

5 :

Current database capacity : 5 entries (Contact the moderator for more informatio

n on this)

Menu

1. Data entry

2. Display a specific entry

3. Display all entries

4. Modify basic salary

5. Exit program

Enter the number corresponding to your choice :

5