Source Code

/\*::::::::::::::::::>>>> CODED BY RITEK ROUNAK <<<<::::::::::::::::::

::::::::::::::::::>>>> EMPLOYEE MANAGEMENT SYSTEM <<<<::::::::::::::::::\*/

#include<fstream.h>

#include<conio.h>

#include<stdio.h>

#include<process.h>

#include<string.h>

#include<iomanip.h>

#include<dos.h>

class employee

{

char ename[50];

int ecode;

float bsalary;

char edsg[20];

char eaddress[50];

long double netsalary;

float hra,da,tr,pf,it;

public:

employee()

{

ecode=0;

ename[0]='\0';

bsalary=0;

edsg[0]='\0';

eaddress[0]='\0';

}

employee(employee&e)

{

ecode=e.ecode;

strcpy(ename,e.ename);

bsalary=e.bsalary;

strcpy(edsg,e.edsg);

strcpy(eaddress,e.eaddress);

}

void readdata()

{

clrscr();

cout<<"\n\t\t Enter the Details :";

cout<<"\n\n\t\t=> Name of Employee : ";

gets(ename);

cout<<"\n\t\t=> Employee Code : ";

cin>>ecode;

cout<<"\n\t\t=> Employee Designation : ";

gets(edsg);

cout<<"\n\t\t=> Employee Address : ";

gets(eaddress);

cout<<"\n\t\t=> Employee Basic Salary : ";

cin>>bsalary;

calsalary();

}

void printdata()

{

cout<<"\n\n\t\t=> Name of Employee : ";

puts(ename);

cout<<"\t\t=> Employee Code : ";

cout<<ecode;

cout<<"\n\t\t=> Employee Designation : ";

puts(edsg);

cout<<"\t\t=> Employee Address : ";

puts(eaddress);

cout<<"\t\t=> Employee Basic Salary : ";

cout<<bsalary;

cout<<"\n\t\t=> Employee Net Salary : ";

cout<<netsalary;

}

void calsalary()

{

hra=bsalary\*0.3;

da=bsalary\*0.1;

tr=bsalary\*0.2;

pf=bsalary\*0.2;

it=bsalary\*0.05;

netsalary=bsalary+hra+da+tr-pf-it;

}

long double ret\_netsalary()

{

return(netsalary);

}

float ret\_bsalary()

{

return(bsalary);

}

int ret\_ecode()

{

return(ecode);

}

char\*ret\_ename()

{

return(ename);

}

char\*ret\_edsg()

{

return(edsg);

}

float ret\_hra()

{

return(hra);

}

float ret\_tr()

{

return(tr);

}

float ret\_da()

{

return(da);

}

float ret\_it()

{

return(it);

}

float ret\_pf()

{

return(pf);

}

void salary()

{

cout<<"\n\t----------------------------------------------------------------";

cout<<"\n\t > Employee Code : "<<ecode;

cout<<"\n\t > Employee Name : "<<ename;

cout<<"\n\t > Employee Designation : "<<edsg;

cout<<"\n\t----------------------------------------------------------------";

cout<<"\n\t Earnings | Amount | Deduction | Amount ";

cout<<"\n\t----------------------------------------------------------------";

cout<<"\n\t Basic \t\t "<<bsalary<<" PF Employee \t"<<pf;

cout<<endl;

cout<<"\n\t Allowances \t\t "<<da<<" Income Tax \t"<<it;

cout<<endl;

cout<<"\n\t House Rent (HRA) "<<hra;

cout<<endl;

cout<<"\n\t Transport Allowance "<<tr;

cout<<endl;

cout<<"\n\t Total "<<bsalary+hra+da+tr<<" Total Deduction "<<pf+it;

cout<<"\n\t----------------------------------------------------------------";

cout<<"\n\t NET SALARY "<<netsalary;

}

void DisplayRecord()

{

cout<<endl;

cout<<endl<<setw(5)<<ecode<<"\t\t "<<setw(15)<<ename<<"\t "<<setw(12)<<""<<edsg<<" "<<setw(12)<<netsalary;

}

};

void create()

{

ofstream fout("employee.dat",ios::out|ios::binary);

employee e;

char choice1;

do

{

e.readdata();

fout.write((char\*)&e,sizeof(e));

cout<<"\n\t\t Do you want to enter more (y/n)";

cin>>choice1;

}while((choice1=='Y')||(choice1=='y'));

fout.close();

}

void display()

{

ifstream fin("employee.dat",ios::in|ios::binary);

employee e;

if(!fin)

{

cout<<"\n\t\t !! File Does Not Exist !! ";

getch();

}

int ctr=0;

while(fin.read((char\*)&e,sizeof(e)))

{

cout<<"\n\n\t\t\t=> Details of Record : "<<++ctr;

e.printdata();

}

fin.close();

}

void display\_salary()

{

ifstream fin("employee.dat",ios::in|ios::binary);

employee e;

if(!fin)

{

cout<<"\n\t\t !! File Does Not Exist !! ";

getch();

}

int code;

int flag=0;

cout<<"\n\t\t=> Enter the Employee Code : ";

cin>>code;

while(!fin.eof())

{

fin.read((char\*)&e,sizeof(e));

if(e.ret\_ecode()==code)

{

flag=1;

clrscr();

cout<<"\n\t\t\t\t SALARY SLIP ";

e.salary();

break;

}

}

if(flag==0)

{

cout<<"\n\t\tRecord not Found ";

}

}

void code\_search()

{

clrscr();

ifstream fin("employee.dat",ios::binary|ios::in);

employee e;

int code;

int flag=0;

cout<<"\n\t\t=> Enter the Employee Code : ";

cin>>code;

while(!fin.eof())

{

fin.read((char\*)&e,sizeof(e));

if(e.ret\_ecode()==code)

{

flag=1;

e.printdata();

break;

}

}

if(flag==0)

{

cout<<"\n\t\tRecord not Found ";

}

fin.close();

}

void name\_search()

{

clrscr();

ifstream fin("employee.dat",ios::binary|ios::in);

employee e;

char name[50];

int flag=0;

cout<<"\n\t\t=> Enter the Employee Name : ";

gets(name);

while(!fin.eof())

{

fin.read((char\*)&e,sizeof(e));

if(strcmpi(e.ret\_ename(),name)==0)

{

flag=1;

e.printdata();

break;

}

}

if(flag==0)

{

cout<<"\n\t\tRecord not Found ";

}

fin.close();

}

void modify()

{

fstream f("employee.dat",ios::binary|ios::in|ios::out);

employee e;

int code;

cout<<"\n\t\t=> Enter the Employee Code : ";

cin>>code;

int rec\_count=0;

char found='N';

while(f.read((char\*)&e,sizeof(e)))

{

if(e.ret\_ecode()==code)

{

cout<<"\n\t\t\t=> Enter the Details ";

e.readdata();

f.seekg(rec\_count\*sizeof(e),ios::beg);

f.write((char\*)&e,sizeof(e));

found='Y';

break;

}

rec\_count++;

}

if(found=='Y')

cout<<"\n\t\t\t=> Record Updated";

else

cout<<"\n\t\t\t=> Record not Found";

f.close();

}

void delete1()

{

ifstream fin("employee.dat",ios::binary|ios::in);

ofstream fout("temp.dat",ios::binary|ios::out);

employee e;

int code;

cout<<"\n\n\t\t=> Enter Employee Code whose record to be Deleted : ";

cin>>code;

char found='Y';

while(fin.read((char\*)&e,sizeof(e)))

{

if(e.ret\_ecode()!=code)

{

fout.write((char\*)&e,sizeof(e));

}

else

found='N';

}

if(found=='Y')

cout<<"\n\n\t\t=> Record not Found";

else

cout<<"\n\t\t\t=> Record Deleted";

fin.close();

fout.close();

remove("employee.dat");

rename("temp.dat","employee.dat");

}

void dsg\_search()

{

clrscr();

ifstream fin("employee.dat",ios::binary|ios::in);

employee e;

char dsg[50];

int flag=0;

cout<<"\n\t\t=> Enter Designation to list employee within it : ";

gets(dsg);

cout<<"\n\n"<<setw(5)<<"Employee Code"<<setw(12)<<" "<<"Employee Name"<<setw(12)<<""<<"Designation"<<setw(12)<<"Salary";

fin.seekg(0,ios::beg);

while(fin.read((char\*)&e,sizeof(e)))

{

fin.read((char\*)&e,sizeof(e));

if(strcmpi(e.ret\_edsg(),dsg)==0)

{

flag=1;

e.DisplayRecord();

}

}

if(flag==0)

{

cout<<"\n\n\n\t\tData not found for Designation : "<<dsg;

}

fin.close();

}

void sal\_search()

{

clrscr();

ifstream fin("employee.dat",ios::binary|ios::in);

employee e;

long double sal;

int flag=0;

cout<<"\n\t\t=> Enter Salary to list employee within it : ";

cin>>sal;

cout<<"\n\n"<<setw(5)<<"Employee Code"<<setw(12)<<" "<<"Employee Name"<<setw(12)<<""<<"Designation"<<setw(12)<<"Salary";

fin.seekg(0,ios::beg);

while(fin.read((char\*)&e,sizeof(e)))

{

fin.read((char\*)&e,sizeof(e));

if(e.ret\_netsalary()==sal)

{

flag=1;

e.DisplayRecord();

}

}

if(flag==0)

{

cout<<"\n\n\n\t\tData not found for Salary :"<<sal;

}

fin.close();

}

void intro()

{

char pass[50];

clrscr();

textcolor(LIGHTRED);

textbackground(WHITE);

gotoxy(27,10);

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

gotoxy(27,11);

cprintf(">>>> EMPLOYEE MANAGEMENT SYSTEM <<<<");

gotoxy(27,12);

cout<<"------------------------------------";

cout<<"\n\n\t\t\tCODED BY : RITEK ROUNAK";

cout<<"\n\t\t\tClass: XII-A";

cout<<"\n\t\t\tSCHOOL : DAV PUBLIC SCHOOL ASHOK VIHAR";

getch();

}

void main()

{

employee e;

int choice2;

char choice3;

intro();

do

{

clrscr();

cout<<"\n\n\t\t >>>>>>>> EMPLOYEE MANAGEMENT SYSTEM <<<<<<<<\n\n";

cout<<"\n\t\t\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*";

cout<<"\n\t\t\* MENU \*";

cout<<"\n\t\t\* 1. Add New Employee Details \*";

cout<<"\n\t\t\* 2. View Employee Details \*";

cout<<"\n\t\t\* 3. Search record by Employee Code \*";

cout<<"\n\t\t\* 4. Search record by Employee Name \*";

cout<<"\n\t\t\* 5. Update Record of an Employee \*";

cout<<"\n\t\t\* 6. Delete Record by Employee Code \*";

cout<<"\n\t\t\* 7. Print Salary Slip \*";

cout<<"\n\t\t\* 8. List Employees of Particular Designation \*";

cout<<"\n\t\t\* 9. List Employees of Particular Salary \*";

cout<<"\n\t\t\* 10. Exit \*";

cout<<"\n\t\t\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*";

cout<<"\n\n\t\t\t=> Enter Your Choice ";

cin>>choice2;

switch(choice2)

{

case 1: create();

break;

case 2: clrscr();

display();

break;

case 3: code\_search();

break;

case 4: name\_search();

break;

case 5: clrscr();

modify();

break;

case 6: clrscr();

delete1();

break;

case 7: clrscr();

display\_salary();

break;

case 8: clrscr();

dsg\_search();

break;

case 9: clrscr();

sal\_search();

break;

case 10: cout<<"\n\n\t\t\tT H A N K S , G O O D B Y E :)";

delay(1000);

exit(0);

default:cout<<"\n\t\t Wrong Choice ";

}

cout<<"\n\n\t\t=> Do you want to Return to Menu (y/n) ";

cin>>choice3;

}while((choice3=='Y')||(choice3=='y'));

cout<<"\n\n\t\t\tT H A N K S , G O O D B Y E :)";

getch();

}