#include <stdio.h>

#include <string.h>

struct Date {

int dd, mm, yy;

};

struct Employee {

int Empno;

char EmpName[50];

struct Date hiredate;

float BasicSalary;

float NetSalary;

};

void AcceptEmployeeData(struct Employee \*emp) {

printf("Enter Employee Number: ");

scanf("%d", &emp->Empno);

printf("Enter Employee Name: ");

scanf(" %[^\n]s", emp->EmpName);

printf("Enter Hire Date (dd mm yyyy): ");

scanf("%d %d %d", &emp->hiredate.dd, &emp->hiredate.mm, &emp->hiredate.yy);

printf("Enter Basic Salary: ");

scanf("%f", &emp->BasicSalary);

}

void CalculateNetPay(struct Employee \*emp) {

float DA = 0.4 \* emp->BasicSalary;

float TA = 0.1 \* emp->BasicSalary;

float PF = 0.05 \* emp->BasicSalary;

emp->NetSalary = emp->BasicSalary + DA + TA - PF;

}

void ShowEmployeeData(struct Employee emp) {

printf("Employee Number: %d\n", emp.Empno);

printf("Employee Name: %s\n", emp.EmpName);

printf("Hire Date: %02d/%02d/%04d\n", emp.hiredate.dd, emp.hiredate.mm, emp.hiredate.yy);

printf("Basic Salary: %.2f\n", emp.BasicSalary);

printf("Net Salary: %.2f\n", emp.NetSalary);

}

int main() {

int limit;

printf("Enter number of Employees");

scanf("%d",&limit);

struct Employee employees[limit];

int numEmployees = 0;

int choice;

while (1) {

printf("\nEmployee Management System\n");

printf("1. Add an Employee\n");

printf("2. Display Employees\n");

printf("3. Exit\n");

printf("Enter your choice: ");

scanf("%d", &choice);

switch (choice) {

case 1:

if (numEmployees < 100) {

printf("\nEnter Employee Details:-\n");

AcceptEmployeeData(&employees[numEmployees]);

CalculateNetPay(&employees[numEmployees]);

numEmployees++;

printf("Employee added successfully!\n");

} else {

printf("Maximum employee limit reached!\n");

}

break;

case 2:

if (numEmployees > 0) {

printf("\nList of All Employees:\n");

for (int i = 0; i < numEmployees; i++) {

ShowEmployeeData(employees[i]);

printf("\n");

}

} else {

printf("No employees in the database!\n");

}

break;

case 3:

printf("Exiting the program.\n");

return 0;

default:

printf("Invalid choice! Please enter a valid option.\n");

break;

}

}

return 0;

}