

OOPS Program - Employee Salary Slip (Turbo C++)

Develop an application with Employee class with Emp_name, Emp_id, Address, Mail_id, Mobile_no as members. Inherit the classes Assistant Professor, Associate Professor and Professor from Employee class. Add Basic Pay (BP) as the member of all the inherited classes with 97% of BP as DA, 10% of BP as HRA, 12% of BP as PF, 0.1% of BP for staff club fund. Generate pay slips for the employees with their gross and net salary.

Program Code:

```
#include <iostream.h>
#include <conio.h>

class Employee {
public:
    char emp_name[30], emp_id[10], address[50], mail_id[30];
    long mobile_no;
    float basic_pay;

    void getdata() {
        cout << "\nEnter Employee Name : ";
        cin >> emp_name;
        cout << "Enter Employee ID : ";
        cin >> emp_id;
        cout << "Enter Address : ";
        cin >> address;
        cout << "Enter Mail ID : ";
        cin >> mail_id;
        cout << "Enter Mobile No : ";
        cin >> mobile_no;
        cout << "Enter Basic Pay : ";
        cin >> basic_pay;
    }

    void generate_payslip() {
        float DA = 0.97 * basic_pay;
        float HRA = 0.10 * basic_pay;
        float PF = 0.12 * basic_pay;
        float staff_club = 0.001 * basic_pay;

        float gross = basic_pay + DA + HRA;
        float net = gross - (PF + staff_club);

        cout << "\n----- PAY SLIP ----- \n";
        cout << "Employee Name : " << emp_name << "\n";
        cout << "Employee ID : " << emp_id << "\n";
        cout << "Address : " << address << "\n";
        cout << "Mail ID : " << mail_id << "\n";
        cout << "Mobile No : " << mobile_no << "\n";
        cout << "Basic Pay : " << basic_pay << "\n";
        cout << "Gross Salary : " << gross << "\n";
        cout << "Net Salary : " << net << "\n";
        cout << "----- \n";
    }
};

class AssistantProfessor : public Employee {};
class AssociateProfessor : public Employee {};
class Professor : public Employee {};

void main() {
    clrscr();

    AssistantProfessor ap;
    AssociateProfessor asp;
    Professor prof;

    cout << "\nEnter details for Assistant Professor:";
    ap.getdata();
```

```

        cout << "\nEnter details for Associate Professor:";
        asp.getdata();

        cout << "\nEnter details for Professor:";
        prof.getdata();

        ap.generate_payslip();
        asp.generate_payslip();
        prof.generate_payslip();

        getch();
    }

```

Sample Output:

Sample Input/Output:

```

Enter details for Assistant Professor:
Enter Employee Name : Arun
Enter Employee ID   : AP101
Enter Address       : Chennai
Enter Mail ID       : arun@mail.com
Enter Mobile No     : 9876543210
Enter Basic Pay     : 50000

```

```

Enter details for Associate Professor:
Enter Employee Name : Meena
Enter Employee ID   : ASP202
Enter Address       : Coimbatore
Enter Mail ID       : meena@mail.com
Enter Mobile No     : 9123456780
Enter Basic Pay     : 65000

```

```

Enter details for Professor:
Enter Employee Name : Ravi
Enter Employee ID   : P303
Enter Address       : Madurai
Enter Mail ID       : ravi@mail.com
Enter Mobile No     : 9001234567
Enter Basic Pay     : 80000

```

```

----- PAY SLIP -----
Employee Name : Arun
Employee ID   : AP101
Address       : Chennai
Mail ID       : arun@mail.com
Mobile No     : 9876543210
Basic Pay     : 50000
Gross Salary  : 146000
Net Salary    : 139900
-----

```

```

----- PAY SLIP -----
Employee Name : Meena
Employee ID   : ASP202
Address       : Coimbatore
Mail ID       : meena@mail.com
Mobile No     : 9123456780
Basic Pay     : 65000
Gross Salary  : 189800
Net Salary    : 181000
-----

```

```

----- PAY SLIP -----
Employee Name : Ravi
Employee ID   : P303
Address       : Madurai
Mail ID       : ravi@mail.com
Mobile No     : 9001234567
Basic Pay     : 80000
Gross Salary  : 233600
Net Salary    : 222960
-----

```