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#include<iostream>

using namespace std;

class employee
{
    public:
string Emp_name,Mail_id,Address,Emp_id,Mobile_no;
    double BP,GP,NP,DA,HRA,PF,CF; void input()
    {
        cout<<"\n\nEnter Name of the Employee : ";
        cin>>Emp_name;

        cout<<"\n\nEnter Address of the Employee : ";
        cin>>Address;

        cout<<"\n\nEnter ID of the Employee : ";
        cin>>Emp_id;

        cout<<"\n\nEnter Mobile Number : ";
        cin>>Mobile_no;

        cout<<"\n\nEnter E-Mail ID of the Employee : ";
        cin>>Mail_id;
    }

    void display()
    {
        cout<<"\nNAME => "<<Emp_name;
        cout<<"\nADDRESS => "<<Address;
        cout<<"\nEMPLOYEE ID => "<<Emp_id;
        cout<<"\nMOBILE NUMBER => "<<Mobile_no;
        cout<<"\nMAIL ID => "<<Mail_id<<"\n";
    }

    void calculation()
    {
        DA=BP*0.97;

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        HRA=BP*0.10;
        PF=BP*0.12;
        CF=BP*0.01;
        GP=BP+DA+HRA+PF;
        NP=GP-PF-CF;
    }
    void basicpaydisplay()
    {
        cout<<"\nBASIC PAY => "<<BP;
        cout<<"\nDEARNESS ALLOWANCE => "<<DA;
        cout<<"\nHOUSE RENT ALLOWENCE => "<<HRA;
        cout<<"\nPROVIDENT FUND => "<<PF;
        cout<<"\nCLUB FUND => "<<CF;
        cout<<"\nGROSS PAY => "<<GP;          cout<<"\nNET
PAY => "<<NP;
    }
};

class programmer:public employee
{
    public:
    double bp1;
    void proginput()
    {
        cout<<"\nENTER THE BASIC PAY OF THE PROGRAMMER =>";
        cin>>BP;
        cout<<"\n=====PROGRAMMER    PAYMENT
SLIP\n=====";
    }
};

class assistantprof:public employee
{

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    public:
    void assprofinput()
    {
        cout<<"\nENTER THE BASIC PAY OF THE ASSISTANT PROFESSOR =>
";
        cin>>BP;

        cout<<"\n=====ASSISTANT PROFESSOR
PAYMENT SLIP\n=====\\n";
    }
};

class assosciateprof:public employee
{
    public:
    void assoprofinput()
    {
        cout<<"\nENTER THE BASIC PAY OF THE ASSOCIATE PROFESSOR =>
";
        cin>>BP;

        cout<<"\n=====ASSOCIATE PROFESSOR
PAYMENT SLIP\n=====\\n";
    }
};

class professor:public employee
{
    public:
    void profinput()
    {
        cout<<"\nENTER THE BASIC PAY OF THE PROFESSOR =>";
        cin>>BP;

        cout<<"\n=====PROFESSOR      PAYMENT
SLIP\n=====\\n";
    }
};

```

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}; int
main()
{
programmer p1;
    p1.input();
    p1.display();
    p1.proginput();
    p1.calculation();
    p1.basicpaydisplay();
    assistantprof a1;
    a1.input();
    a1.display();
    a1.assprofinput();
    a1.calculation();
    a1.basicpaydisplay();
    assosciateprof a2;
    a2.input();
    a2.display();
    a2.assoprofinput();
    a2.calculation();
    a2.basicpaydisplay();
    professor p2; p2.input();
    p2.display(); p2.profinput();
    p2.calculation();
    p2.basicpaydisplay();
}
```