#include"iostream"

#include"string"

#include"list"

using namespace std;

class Member{

protected:

string name;

int ID;

int age;

string gender;

double pay;

public:

Member(string name=0,int ID=0,int age=0,string gender=0,double pay=0){

(\*this).name=name;

(\*this).ID=ID;

(\*this).age=age;

(\*this).gender=gender;

(\*this).pay=pay;

(\*this).pay=getpay();

}

string getName(){return name;}

int getID(){return ID;}

int getAge(){return age;}

string getGender(){return gender;}

virtual double getpay(){return 0;}

virtual void print(){}

};

class Boss:public Member{

public:

Boss(string name,int ID,int age,string gender,double pay):Member(name,ID,age,gender,pay){

(\*this).name=name;

(\*this).ID=ID;

(\*this).age=age;

(\*this).gender=gender;

(\*this).pay=pay;

(\*this).pay=getpay();

}

double getpay(){return pay/12;}

void print(){

cout<<"BOSS "<<"\t"<<name<<"\t"<<ID<<"\t"<<age<<"\t"<<gender<<"\t"<<pay<<endl;

}

};

class Employee:public Member{

double bonus;

public:

Employee(string name,int ID,int age,string gender,double pay,double bonus):Member(name,ID,age,gender,pay){

(\*this).name=name;

(\*this).ID=ID;

(\*this).age=age;

(\*this).gender=gender;

(\*this).pay=pay;

(\*this).bonus=bonus;

(\*this).pay=getpay();

}

double getpay(){return pay+bonus;}

void print(){

cout<<"Employee "<<"\t"<<name<<"\t"<<ID<<"\t"<<age<<"\t"<<gender<<"\t"<<pay<<endl;

}

};

class HourlyWorker:public Member{

double hour;

public:

HourlyWorker(string name,int ID,int age,string gender,double pay,double hour):Member(name,ID,age,gender,pay){

(\*this).name=name;

(\*this).ID=ID;

(\*this).age=age;

(\*this).gender=gender;

(\*this).pay=pay;

(\*this).hour=hour;

(\*this).pay=getpay();

}

double getpay(){return pay\*hour\*12;}

void print(){

cout<<"HourlyWorker"<<"\t"<<name<<"\t"<<ID<<"\t"<<age<<"\t"<<gender<<"\t"<<pay<<endl;

}

};

class CommWorker:public Member{

double profit;

public:

CommWorker(string name,int ID,int age,string gender,double pay,double profit):Member(name,ID,age,gender,pay){

(\*this).name=name;

(\*this).ID=ID;

(\*this).age=age;

(\*this).gender=gender;

(\*this).pay=pay;

(\*this).profit=profit;

(\*this).pay=getpay();

}

double getpay(){return pay+profit\*0.05;}

void print(){

cout<<"CommWorker "<<"\t"<<name<<"\t"<<ID<<"\t"<<age<<"\t"<<gender<<"\t"<<pay<<endl;

}

};

class Report{

public:

void add(list<Member \*> &member,Member \*p){

member.push\_back(p);

}

void print(list<Member \*> member){

list<Member \*>::iterator point;

for(point=member.begin();point!=member.end();point++){

(\*point)->print();

}

}

};

void main()

{

list<Member \*> member;

Member (\*b)=new Boss("BOSS",1234,37,"male",150000);

Member (\*e1)=new Employee("EA",2234,28,"female",2000,200);

Member (\*e2)=new HourlyWorker("HB",3234,25,"male",40,8);

Member (\*e3)=new CommWorker("CC",4234,29,"male",1700,2000);

Report reporter;

reporter.add(member,b);

reporter.add(member,e1);

reporter.add(member,e2);

reporter.add(member,e3);

cout<<"TYPE "<<" NAME "<<"ID"<<"\t"<<"AGE"<<"\t"<<"GENDER"<<"\t"<<"SALARY"<<endl;

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

reporter.print(member);

system("pause");

}