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# include <iostream>
# include<string.h>
//*****
class Employee
{
protected:
    char name[10];
    int age;
    int id;
    float sal;

public:
    Employee(const char* name="",int age=0,int id=0,float sal=0.0f)
    {
        strcpy(this->name,name);
        this->age = age;
        this->id = id;
        this->sal = sal;
    }
    const char* getName()
    {
        return this->name;
    }
    int getAge()
    {
        return this->age;
    }
    int getId()
    {
        return this->id;
    }
    float getSal()
    {
        return this->sal;
    }
    virtual void display()
    {
        std::cout<<"Name: "<<this->name<<std::endl<<"Age: "<<this->age<<std::endl<<"ID: "
        <<this->id<<std::endl<<"Salary: "<<this->sal<<std::endl;
    }
    virtual float cal_income()
    {
        return this->sal;
    }
};
//*****
class Manager :public Employee
{
private:
    int bonus;
public:
    Manager(const char* name="",int age=0,int id=0,float sal=0.0f,int
    bonus=0):Employee(name,age,id,sal)
    {
        this->bonus = bonus;
    }
    void display()
    {
        Employee::display();
        std::cout<<"Bonus: "<<this->bonus<<std::endl;
    }
    float cal_income()
    {
        return (this->sal + this->bonus);
    }
};

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//*****
class Salsman:public Employee
{
private:
    int incentive;
public:
    Salsman(const char* name="",int age=0,int id=0,float sal=0.0f,int
incentive=0):Employee(name,age,id,sal)
    {
        this->incentive = incentive;
    }
    float cal_income()
    {
        return (this->sal + this->incentive);
    }
};
//*****
float total_Salary(Employee*arr[],int count)
{
    float salary = 0.0f;
    for(int i =0;i<count;i++)
    {
        salary +=arr[i]->getSal();
    }
    return salary;
}

float total_Income(Employee*arr[],int count)
{
    float income = 0.0f;
    for(int i =0;i<count;i++)
    {
        income+=arr[i]->cal_income();
    }
    return income;
}
//*****
int main()
{
    Employee * arr[3];
    arr[0] = new Employee("Satyam",20,101,40000.0f);
    arr[1] = new Manager("Shreyash",20,100,40000.0f,5000);
    arr[2] = new Salsman("Om",20,103,40000.f,1000);

    arr[0]->display();
    std::cout<<"*****"<<std::endl;
    arr[1]->display();
    std::cout<<"*****"<<std::endl;
    arr[2]->display();
    std::cout<<"*****"<<std::endl;

    float total_sal = total_Salary(arr,3);
    std::cout<<"Total salary:-> "<<total_sal<<std::endl;
    std::cout<<"*****"<<std::endl;
    float total_income = total_Income(arr,3);
    std::cout<<"Total income:-> "<<total_income<<std::endl;
    std::cout<<"*****"<<std::endl;
    return 0;
}

//*****

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