Nishanth P – 24BAD405

Week 5

1. Secure Bank Account with Private Data

Secure Bank Account with Private Data

locked

Problem | Submissions | Leaderboard | Discussions

Submitted a day ago • Score: 5.00 Status: Accepted

✔ Test Case #0 ✔ Test Case #1

Submitted Code

Language: C++ Open in editor

```cpp
#include <cmath>
#include <cstdio>
#include <vector>
#include <iostream>
#include <algorithm>
using namespace std;

class BankAccount{
    int balance;
    public:
        BankAccount(int amount){
            balance=amount;
        }
        void deposit(int amount){
            balance+=amount;
        }
        void displayBalnce(){
            cout<<"Updated Balance: "<<balance<<endl;
        }
};
int main() {
    /* Enter your code here. Read input from STDIN. Print output to STDOUT */
    int inital, amount;
    cin>>inital>>amount;
    BankAccount bac(inital);
    bac.deposit(amount);
    bac.displayBalnce();
    return 0;
}

```

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Week 5

2. Student Grades with Protected Access

Student Grades with Protected Access

locked

Problem | Submissions | Leaderboard | Discussions

Submitted a day ago • Score: 5.00 Status: Accepted

✔ Test Case #0 ✔ Test Case #1

Submitted Code

Language: C++ Open in editor

```cpp
#include <cmath>
#include <cstdio>
#include <vector>
#include <iostream>
#include <algorithm>
using namespace std;

class Student{
    protected:
      int mark;
};

class Result:public Student{
    public:
        Result(int m){
            mark=m;
        }
        void display(){
            cout<<"Marks: "<<mark<<endl;
        }
};
int main() {
    /* Enter your code here. Read input from STDIN. Print output to STDOUT */
    int mark;
    cin>>mark;
    if(mark>=0 && mark<=100){
        Result res(mark);
        res.display();
    }
    return 0;
}

```

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Week 5

3. Private Salary & Public Raise Function

Private Salary & Public Raise Function

locked

Problem | Submissions | Leaderboard | Discussions

Submitted 21 hours ago • Score: 5.00 Status: Accepted

✔ Test Case #0 ✔ Test Case #1 ✔ Test Case #2

Submitted Code

Language: C++ Open in editor

```cpp
#include <cmath>
#include <cstdio>
#include <vector>
#include <iostream>
#include <algorithm>
using namespace std;

class Employee{
    private:
    double salary;
    public:
    Employee(double sal){
        salary=sal;
    }
    void raiseSalary(double percentage){
        percentage=1+(percentage/100);
        salary*=percentage;
    }
    void display(){
        cout<<"New Salary: "<<salary<<endl;
    }
};
int main() {
    /* Enter your code here. Read input from STDIN. Print output to STDOUT */
    double salary;
    int percentage;
    cin>>salary;
    cin>>percentage;
    if(1000<=salary && salary<=1e6){
            Employee emp(salary);
            if(0<=percentage  && percentage<=100){
                    emp.raiseSalary(percentage);
            }
            emp.display();
    }
    return 0;
}

```

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Week 5

4. Vehicle Speed Display System

Vehicle Speed Display System

locked

Problem | Submissions | Leaderboard | Discussions

Submitted 21 hours ago • Score: 5.00 Status: Accepted

✔ Test Case #0 ✔ Test Case #1 ✔ Test Case #2

Submitted Code

Language: C++ Open in editor

```
#include <cstdio>
#include <vector>
#include <iostream>
#include <algorithm>
using namespace std;

class Vehicles{
    protected:
        string registerNumber, modal;
};
class Cars:public Vehicles{
    public:
        float maxSpeed;
        Cars(string reg, string mod, float speed){
            registerNumber=reg;
            modal=mod;
            maxSpeed=speed;
            display();
        }
        void display(){
            if(120<maxSpeed){
                cout<<"Reg: "<<registerNumber<<", Brand: "<<modal<<", Speed: "<<maxSpeed<<", Status: Overspeeding"
<<endl;
            }else{
                cout<<"Reg: "<<registerNumber<<", Brand: "<<modal<<", Speed: "<<maxSpeed<<", Status: Normal"<<endl;
            }
        }
};
int main() {
    /* Enter your code here. Read input from STDIN. Print output to STDOUT */
    string reg, mod;
    float  speed;
    cin>>reg>>mod;
    cin>>speed;
    if(0<=speed && speed<=300){
        Cars car(reg, mod, speed);
    }
    return 0;
}

```

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Week 5

5. Teacher Payroll System

Teacher Payroll System

locked

Problem | Submissions | Leaderboard | Discussions

Submitted 21 hours ago • Score: 5.00 Status: Accepted

✔ Test Case #0 ✔ Test Case #1 ✔ Test Case #2

Submitted Code

Language: C++ Open in editor

```
#include <cmath>
#include <cstdio>
#include <vector>
#include <iostream>
#include <algorithm>
using namespace std;

class Teacher{
    protected:
        string name;
        string subject;
        float salary;
};

class Payroll:public Teacher{
    public:
        int extraClass;
        float extraPay;
        float totalSalary;
        Payroll(string nam, string sub, float sal, int exCl, float exPay){
            name=nam;
            subject=sub;
            salary=sal;
            extraClass=exCl;
            extraPay=exPay;
            payroll();
            display();
        }
        void payroll(){
            extraPay=extraClass*extraPay;
            totalSalary=extraPay+salary;
        }
        void display(){
            cout<<name<<", Subject: "<<subject<<", Base: "<<salary<<", Extra Pay: "<<extraPay<<", Total: "
<<totalSalary<<endl;
        }
};
int main() {
    /* Enter your code here. Read input from STDIN. Print output to STDOUT */
    string nam, sub;
    float sal, exPay;
    int exCl;
    cin>>nam>>sub>>sal;
    if(0<sal){
        cin>>exCl>>exPay;
        Payroll pay(nam, sub, sal, exCl, exPay);
    }
    return 0;
}
```

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Week 5

6. Employee Attendance Logger

Employee Attendance Logger

locked

Problem | Submissions | Leaderboard | Discussions

Submitted 20 hours ago • Score: 5.00 Status: Accepted

✔ Test Case #0 ✔ Test Case #1

Submitted Code

Language: C++ Open in editor

```cpp
#include <cmath>
#include <cstdio>
#include <vector>
#include <iostream>
#include <algorithm>
#include <iomanip>
using namespace std;

class Person{
    protected:
        string name;
        int ID;
};
class Attendance: public Person{
    public:
    int totalWorkingDays, dayPresent;
    float attendance;
        Attendance(string nam, int id, int workingdays, int daypresent){
            name=nam;
            ID=id;
            totalWorkingDays=workingdays;
            dayPresent=daypresent;
            display();
        }
        void display(){
            attendance=(static_cast<float>(dayPresent)/totalWorkingDays)*100;
            cout<<"Name: "<<name<<"\nID: "<<ID<<"\nAttendance: "<<fixed<<setprecision(2)<<attendance<<"%"<<endl;
            if(attendance<75){
                cout<<"Status: Low Attendance"<<endl;
            }else{
                cout<<"Status: Good"<<endl;
            }
        }
};
int main() {
    /* Enter your code here. Read input from STDIN. Print output to STDOUT */
    string empName;
    int empID, talWrkDy, preDy;
    cin>>empName>>empID>>talWrkDy>>preDy;
    if(preDy<=talWrkDy){
        Attendance atten(empName, empID, talWrkDy, preDy);
    }
    return 0;
}

```