**Your Challenge:**

The following sample code is using Visitor Pattern to find the Average age of Employee.

Can you provide another visitor to find the total Monthly Salary?

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| **VisitorEmployeeEx** |
| **Line** | **Code** |
| **1****2****3****4****5****6****7****8****9****10****11****12****13****14****15****16****17****18****19****20****21****22****23****24****25****26****27****28****29****30****31****32****33****34****35****36****37****38****39****40****41****42****43****44****45****46****47****48****49****50****51****52****53****54****55****56****57****58****59****60****61****62****63****64****65****66****67****68****69****70****71****72****73****74****75****76****77****78****79****80****81****82****83****84****85****86****87****88****89****90****91****92****93****94****95****96** | **using** System;**namespace** VisitorEmployeeEx { **interface** Employee { **void** Accept(EmployeeVisitor employeeVisitor); } **class** Manager : Employee { **public string** Name; **public double** Salary; **public int** Age; **public** Manager(**string** name, **double** salary, **int** age) { Name = name; Salary = salary; Age = age; } **public virtual double** MonthlySalary { **get**{ **return** (1.0 - 0.11) \* Salary; } } **public virtual void** Accept(EmployeeVisitor employeeVisitor) { employeeVisitor.Visit(**this**); } } **class** SalesManager : Manager, Employee { **float** PetrolAllowance;**public** SalesManager(String name, **double** salary, **int** age,  **float** petrolAllowance): **base**(name, salary, age){ PetrolAllowance = petrolAllowance; } **public override double** MonthlySalary { **get** { **return** (1.0 - 0.11) \* Salary + PetrolAllowance; } } **public override void** Accept(EmployeeVisitor employeeVisitor) { employeeVisitor.Visit(**this**); } } **interface** EmployeeVisitor { **void** Visit(Manager manager); **void** Visit(SalesManager salesManager); } **class** EmployeeAverageAgeVisitor : EmployeeVisitor { **private int** TotalAge; **private int** NoOfEmployee; **public** EmployeeAverageAgeVisitor() { TotalAge = 0; NoOfEmployee = 0; } **public void** Visit(Manager manager) { TotalAge += manager.Age; NoOfEmployee++; } **public void** Visit(SalesManager salesManager) { TotalAge += salesManager.Age; NoOfEmployee++; } **public double** AverageAge { **get** { **return** TotalAge / (**double**)NoOfEmployee; } }  } **class** Company{ Employee[] employees; **public** Company() { employees = **new** Employee[]{ **new** Manager("Ali", 5000, 35), **new** SalesManager("Abu", 4500, 28, 600), **new** Manager("Azizi", 6500, 40), **new** Manager("Ahmad", 4000, 25), }; } **public void** Accept(EmployeeVisitor employeeVisitor) { **foreach** (Employee m **in** employees) m.Accept(employeeVisitor); } } **class** Program { **static void** Main(**string**[] args) { Company company = **new** Company(); EmployeeAverageAgeVisitor visitor = **new** EmployeeAverageAgeVisitor(); company.Accept(visitor); Console.WriteLine("The average age is " + visitor.AverageAge); Console.ReadKey(); } }}/\* Study the above code carefully, and create another visitor to get the  total monthly salary \*/  |