**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  \*/ |