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IT 206-001

Assignment 1

1. List and describe the purpose of each class.

PayRollApplication – This class will continually prompt for user information until you decide to stop, keeps track of the amount of employees entered and the total amount paid to all employees.

GetEmployee – This class will prompt and store user input for employee’s name, employee’s ID, hourly pay rate, hours worked, employee’s senior status, calculate the paycheck amount, and return a summary of what the user has entered.

1. PayRollApplication

|  |  |
| --- | --- |
| (-)count: int | Tracks the number of employee entered |
| (-)money: double | Tranks the total amount of money paid to employees |
|  |  |
| (+)GetEmployee | Construct a employeeInfo object |
| (-)getEmployeeInfo() | Prompt the user for info about employees |
| (-)moreInput() | Prompt if the user would like to enter information for more employees |

|  |  |
| --- | --- |
| (-)name: String | Name of the employee |
| (-)employeeID: String | Employee’s id |
| (-)hourlyPayRateStr: String | User input for employee’s hourly rate |
| (-)hourlyPayRate: double | Employee’s hourly rate in double form. |
| (-)hoursWorked: double | The number of hours the employee worked |
| (-)seniorEmployeeStatus: Boolean | Employee’s senior status |
| (-)paycheckAmount: double | The total amount |
|  |  |
| (+)getEmployeeInfo(): void | Prompt user for employee’s info |
| (-)getName(): void | Set name |
| (-)getEmployeeID(): void | Set employee ID |
| (-)getHourlyPayRate(): void | Set hourly pay rate |
| (-)getHoursWorked(): void | Set hours worked |
| (-)getEmployeeSeniorStatus():boolean | Set employee’s seniors status |
| (-)calcPaycheckAmount(): void | Calculate the paycheck amount |
| (-)getEmployeeSeniorStatus(Boolean s): string | Returns a string for the message for employee’s senior status |
| (-)getEmployeeSummary(): void; | Produce a well formatted summary of employee’s info |
| (+)moreInput(): Boolean | Ask if the user wants to continue entering info for more employee |
| (+)getPaycheckAmount(): double | Returns the paycheck amount |

Method:getEmployeeInfo  
Purpose: Get employee’s information  
Input: none  
Return: none

Method: getName  
Purpose: Prompt and validate name input  
Input: name:String  
Return: void

Method: getEmployeeID  
Purpose: Prompt and validate Employee ID input  
Input: employeeID: String  
Return: void

Method: getHourlyPayRate  
Purpose: Prompt and validate Employee’s hourly pay rate  
Input: hourlyPayRate: double  
Return: void

Method: getHoursWorked  
Purpose: Prompt and validate numbers of hours employee’s worked.  
Input: hoursWorked: Double  
Return: void

Method: getEmployeeSeniorStatus  
Purpose: Prompt and validate whether or not the employee is a senior  
Input: senior employee status: String  
Return: seniorEmployeeStatus: boolean

Method: calcPaycheckAmount  
Purpose: Calculate the total amount of money on the employee’s next paycheck  
Input: void  
Return: paycheckAmount: double

Method: getEmployeeSeniorStatus  
Purpose: Generates a string message for employee’s senior status.  
Input: void  
Return: String – yes or no

Method: getEmployeeSummary  
Purpose: Generates a summary of the employee’s information for the user.  
Input: void  
Return: void

Method: moreInput  
Purpose: prompts the user if they would like to enter any more employees  
Input: String – yes or no  
Return: boolean

Method: getPaycheckAmount  
Purpose: Retrieves the paycheck amount for the employee and adds to the running total  
Input: void  
Return: paycheckAmount - double