**M05 Semester Project UML:**

The first class I will use in my project will be that of “Timepunch”.

Public Method

Methods:

hoursWorked ( timeOut - Time in )

Public Attributes

Public class: TimePunch

TimePunch

Attached variables:

empName: String

timeIn: double

break: double

timeOut: double

This class will essentially hold all of the information pertaining to the individuals that work at this place of business. This make the calling of the input entered in these fields much easier to retrieve and place in other parts of the program down the line.

The second class I will be using in my program will be that of an “EmpInfo” class that will hold the values of each worker’s wages and whether they are full-time or part-time.

Public class: EmpInfo

Attached variables:

wage: float

status: String

payEST: float

hoursEXP: float

tax: float = wage \* hoursEXP \* 0.0323)

Position: String

Public Variables

Methods:

calcPay ( wage \* hoursEXP - tax)

Public method

This class will make it very easy to not only calculate pay based on wage and hours, but I will now also be able to more easily pull this information to anywhere I may need it in my program itself. It also allows for very accurate pay predictions, even factoring in Indiana tax.

These two classes will work together in numerous ways to both assign pay, positions or hours to a specified employee, record times clocked in or out, and even calculate a prediction for pay based on expected hours and wage with the inclusion of tax deductions. All of this information will then be displayed to the user for their use. I would like to add more functions to this program as well, assuming that I will have the time!

The WorkDocumentation class will strictly exist to display to the user their work related data such as how much they have worked this week, wage, how many hours they have worked the current day, their position in the company etc. This is a purely information class that is here for the user to better understand their work output.

Import main method from EmpInfo.

Double HoursWorkedToday;

Double Wage;

Float DaysWorked;

Float HoursWorkedWeek;

String Salary;

String Position;

String StartDate;

String DicumentedRaises;

Public class: WorkDocumentation