

Digital Pink Card

Program Design Language

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Revision Control

History Revision:

<i>Revision Date</i>	<i>Person Responsible</i>	<i>Version Number</i>	<i>Modification</i>
11/28/17	Jann Willem Cai	1.0	Initial Document

Control Class: CalcUsageCost

Program Specification (Method): CalcAmountDue

Input:

Student Object - instantiated from public Student() class

Output:

Integer amountdue

Program Logic:

GET Hourly-rate

CALL function CalcSessionTime

SAVE value returned from CalcSessionTime to variable SessionTime

CALL function getFreeHours

SAVE value returned from getFreeHours to variable FreeHours

SAVE value from FreeHours minus SessionTime to variable Difference

IF Difference is greater than zero

Return zero

ELSE IF Difference is less than zero

SAVE absolute value of Difference to Difference

ROUNDUP Difference to the nearest hour

SAVE the hour part of Difference to variable Hour

Return Hour times Hourly-rate

END IF

