**CMSC 203**

**Fall 2015**

**Chapter 1 Lab**

**Task #1 Pseudocode:**

Display “How many hours did you work?”

Input hours

Display “How much do you get paid per hour?”

Input rate

Calculate the gross pay for the user given the following conditions:

If the number of hours worked is less than or equal to 40, then multiply the number of hours worked by the hourly pay.

Else, if the number of hours worked is greater than 40, then multiply the number of hours worked by the hourly pay for the first 40 hours. For any additional time above 40 hours worked, multiply that extra time by 1.5 times the hourly pay. Add the extra overtime pay to the amount earned while working 40 hours or under. en ate the overtime pay by multiplying that by

Store the value in the pay variable.

Display the value in the pay variable.

**Task #2**

|  |  |  |  |
| --- | --- | --- | --- |
| **Hours** | **Rate($)** | **Pay (hand calculated)** | **Pay (program result)** |
| **32** | **13.5** | **$432** | **$432.0** |
| **40** | **8.50** | **$340** | **$340.0** |
| **45** | **15** | **$712.50** | **$712.5** |

**Task #3**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Item** | **Price** | **Tax** | **Total ( hand calculated)** | **Total (output)** |
| **Milk** | **2.50** | **.055 (5.5%)** | **$2.64 (rounded up to the nearest penny)** | **$2.6375** |
| **Bread** | **1.75** | **.055 (5.5%)** | **$1.85 (rounded up to the nearest penny)** | **$1.84625** |