Assignment #1 (Due 2/15/07)

1. An employee is paid at a rate of $16.78 per hour for the first 40 hours worked in a week. Any hours over that are paid in overtime rate of one and one half times that. From the worker’s gross pay, 6% is withheld for social security tax, 14% is withheld for federal income tax, 5% is withheld for state income tax, and $10 per week for union dues. If the worker has three or more dependants, then additional $35 is withheld to cover the extra cost of health insurance beyond what the employer pays. Write a program that will read in the number of hours worked in a week and the number of dependents as input and will then output the worker’s gross pay, each withholding amount, and the net take-home pay for the week.

2. Write a program that plays the game of Mad lib. Your program should prompt the user to enter the following strings:

- The first or last name of your instructor
- Your name
- A food
- A number between 100 and 120
- An adjective
- A color
- An animal
After the strings are input, they should be substituted in the story below and output to the console.

Dear Instructor [Instructor Name],

I am sorry that I am unable to turn in my homework at this time.

First, I ate a rotten [Food], which made me turn [Color] and extremely ill. I came down with a fever of [Number 100 -120]. Next, my [Adjective] pet [Animal] must have smelled the remains of the [Food] on my homework, because he ate it. I am currently rewriting my homework and hope you will accept it late.

Sincerely,

[Your Name]