Class Exercise

Week 3

Question 1

BuyNLarge is having a sale on small cleaning robots. The **price for a single robot** is $75.99. But if you **order 6 or more robots**, the **price per robot** is $59.99. In addition, if you happen to be ordering from Ontario (ON) you receive **free shipping**. Otherwise, the **cost of shipping is $40**.

Question 1

- Create a program that will:
  - Ask for the customer's name
  - Ask for the number of robots to order
  - Ask for the province to ship the robots to
  - Compute the cost of the order
  - The output will display the customer's name and home province, the number of robots ordered, the price per robot, the cost before shipping, the cost of shipping, and the total cost for the order

What do we know?

- price for a single robot is $75.99
- If 6 or more ordered price per robot is $59.99
- cost of shipping is $40
- If province is Ontario (ON) then the cost of shipping is $0

What do we need to get? (input)

- Customer name
- Number of robots to order
- Province to ship

What do we need to calculate

- Total before shipping
  - This would be the number of robots X the cost per robot
- Total of shipping
  - Free or $40
- The total owing
  - Total before shipping + shipping

What do we need to display? (output)

- Customer name
- Province
- # of robots ordered
- Price of each robot
- Cost of the robots
- Cost of shipping
- Total costs

Question 2

- We need to create a program that will calculate a person's wage.
- The normal wage is $18.75/hour for the first 40 hours
- After that, the wage increases to "time and a half" – the individual makes 1.5 x per hour what they normally make
- Make a program that will ask the user for their name and the number of hours they worked. The program will then display the total hours worked and the amount that they made.
- Remember – if the user works more than 40 hours, then we need to know how many of those hours were above 40 and those hours will be at $28.125 per hour (or 1.5 X 18.75)