Do as many as you can of the following problems. Do them in order.

0. In class we covered two forms of the if statement. Read about the third form (elif) in the class notes on pages 51-52.

1. Do the problems on page 50, 52, 53.

2. Write a program to ask the user for a purchase amount and print, the amount and the discount according to the following rule:
   1. No discount if the purchase amount is under $100.
   2. 10% off on the complete purchase amount if purchase amount is greater than or equal to $100.

3. Write a program to ask the user for a purchase amount and print, the amount and the discount according to the following rule:
   1. No discount if the purchase amount is under $100.
   2. 10% off on everything above $100 if the purchase amount is greater or equal to $100.

4. Write a program to ask the user for a purchase amount and print, the amount and the discount according to the following rule:
   1. No discount if the purchase amount is under $100.
   2. 10% off on everything from $100 and above if the purchase amount is greater or equal to $100 but less than $1000.
   3. 15% off on everything from $100 and above if the purchase amount is greater or equal to $1,000 but less than $2000.
   4. 20% off on everything from $100 and above if the purchase amount is greater or equal to $2,000.

5. Write a program to ask the user for a purchase amount and print, the amount and the discount according to the following rule:
   No discount if the purchase amount is under $100.
   1. 10% off on everything from $100 and less than $1,000.
   2. plus 15% off on everything from $1,000 and less than $2000.
   3. plus 20% off on everything from $2,000 and above.
6. Write a program to ask the user for a three digit integer (the rightmost digit should not be 0). Print the original number and the print the digits in reverse order. For example:

Please enter a three digit integer: 123
You entered: 123
123 reversed is 321.

7. Write a program to input a 2-digit integer, call it x, where the rightmost digit is non-zero. Compute the integer y which has the same digits as x, but in reverse order. Print out x, y and x+y.

For example:

Please enter a two-digit integer: 23
23 reversed is: 32
23 + 32 is 55