More If Statement Problems

- 1) Write a program that asks the user to input a number. Your program should then determine if that number is even or odd.
 - Hint: All even numbers when divided by 2 give a remainder of 0.
- Write a program that asks the user to input a number. Your program should then output the absolute value of that number.
 - Hint: Absolute value of -7 is 7. Absolute value of 7 is 7.
- Write a program that asks the user to input the month. The program should then output the number of days in the month. Assume a non leap year.
- Write a program that asks the user to input the lengths of the three sides of a triangle. Your program should then determine if the triangle can be classified as any of the following:
 - Equilateral, isosceles, scalene, right
- Write a program that asks the user to input the weight of a letter in grams, determine the cost of the postage given the following information:

Up to 30 g: \$0.48 Up to 50 g: \$0.70 Up to 100 g: \$0.90

\$0.18 more for each 50 g or less after that.

Write a program that asks the user to input a card number. Your program should then output the suit and value of that card. For example, Queen of Spades. Hearts are cards numbered 1 to 13. Diamonds are cards numbered 14 to 26. Spades are cards numbered 27 to 39 and clubs are cards numbered 40 to 52.

7) Write a program that asks the user to enter the a, b, and c for the equation $ax^2 + bx + c$.

Your program should continue to calculate the discriminant of that quadratic to determine if the quadratic equation has two real roots, one unique root, or no real roots.

Hint: Discriminant Formula:
$$D = b^2 - 4ac$$

If
$$D > 0$$
, two real roots.

If
$$D = 0$$
, one unique root.

If
$$D < 0$$
, no real roots

- 8) Write a program that asks the user to input a single digit. Your program should then output that digit in words. For example, 9 is output as nine.
- 9) Write a program that asks the user to input their birth date. Your program then needs to output the astrological sign of that person.