Unit 2 Part 1 - More Practice Questions on Decisions

1. Write a program that asks the user the answer to 3 simple math problems. Get their answer, determine if they are correct or not, and output either “Correct!” or “Sorry - the answer is \_\_\_\_”

**3U extention:** Can you use random numbers to make your program ask different questions each time?

1. Write a program to ask the user for a country, and output the capital city of that country. You should include at least 5 countries in your program. If the user enters a country you have not included, the program should print out an error message saying “I’m sorry, I don’t know the capital city of \_\_\_\_\_\_\_”
2. Write a program to ask the user for three integers. Your program should print out the smallest of the 3 numbers.
3. Write a program to ask the user for a language using a menu (i.e. enter 1 for English, 2 for French, etc.) and output a greeting in the language they select.
4. Write a program to ask the user for 3 integers. Output the three numbers in order.

**3U Challenge Questions:**

1. Write a program to find the roots of a quadratic if the user enters a, b and c for . You will need to check the discriminant to see if there are one, two or zero roots.
2. Write a program to translate an amount of money into change (coins). The input is an integer between 0 and 100 (representing the amount of money in cents). The output is the number of each coin that you would need to make that amount of change most efficiently.

I.e. input of 82 (represents $0.82)

Output of:  
 3 quarters  
 0 dimes  
 1 nickel

2 pennies