

CS265 Spring 2023

Program 1

Objective

Work with basic input commands.

Work with basic mathematic operators

Work with basic output commands

Assignment

Write each of the following programs in C, C++, Python, and Java. Make sure to use the appropriate extension for each file (.c, .cpp, .py, and .java, respectively). Name each file prog1ABC.extension, where ABC are your initials. My 4 files would be prog1TLS.c, prog1TLS.cpp, prog1TLS.py, and prog1TLS.java.

Write a single problem that addresses all three parts. Use a print statement stating the part before writing the code for each part. Keep the input single. Only ask for the specified values, in the order requested. Don't worry about invalid input, Don't ask for additional information, or create a menu. Only ask for the required information.

Use scanf in C, use cin in C++.

Make sure to include a comment section in each program. It should include your name, UND email address, the part, if relevant, and a brief comment about the program.

Part 1 – Convert from seconds

1. Prompt the user to enter one integer value, which will be the number of seconds
2. Calculate and display the number of equivalent hours, minutes and seconds. The output should be on a single line.

Remember that there are 3600 seconds in an hour.

Sample Output

Seconds: 20000

This is 5 hours, 33 minutes and 20 seconds.

Part 2 – Convert to dollars

1. Prompt the user to enter four integers: quarters, dimes, nickels and pennies.
2. Display the equivalent in dollars and cents.

Sample Output

Quarters: 6

Dimes: 6

Nickels: 6

Pennies: 6

This is equal to \$2.46

Part 3: - Work with output

1. Prompt the user to enter a first name, last name, address, city, state, and zip code. All inputs will be strings.

Once you have the values entered into the six variables, print your first name, last name, address, city, state abbreviation, and zip code in the following format:

FirstName LastName

Address

City, State Zip code

Write this information to the screen twice, once using EXACTLY 1 print statement, and once again using EXACTLY 6 print statements. Make sure there are no extra spaces in the output. Also make sure there are two spaces between the state and zip code.

Finished?

Upload your 4 files into Blackboard. Please upload 4 individual files.

Questions?

Ask, sooner rather than later.