Module 1: Critical Thinking Assignment

Console Application and Syntax Corrections

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February 13, 2026

C++ Console Application

This section demonstrates the creation of a C++ console application using Eclipse IDE. The program displays basic information for a fictional individual, including first name, last name, street address, city, and zip code. The purpose of this task is to demonstrate understanding of fundamental C++ syntax, console output, and proper program structure.

Pseudocode

```
BEGIN PROGRAM

    DISPLAY "First Name: Bruce"
    DISPLAY "Last Name: Wayne"
    DISPLAY "Street Address: 1007 Mountain Drive"
    DISPLAY "City: Gotham City"
    DISPLAY "Zip Code: 08109"

END PROGRAM
```

Source Code

```
#include <iostream>

using namespace std;

int main()
{
    cout << "First Name: Bruce" << endl;
    cout << "Last Name: Wayne" << endl;
    cout << "Street Address: 1007 Mountain Drive" << endl;
    cout << "City: Gotham City" << endl;
    cout << "Zip Code: 08109" << endl;

    return 0;
}
```

Program Output

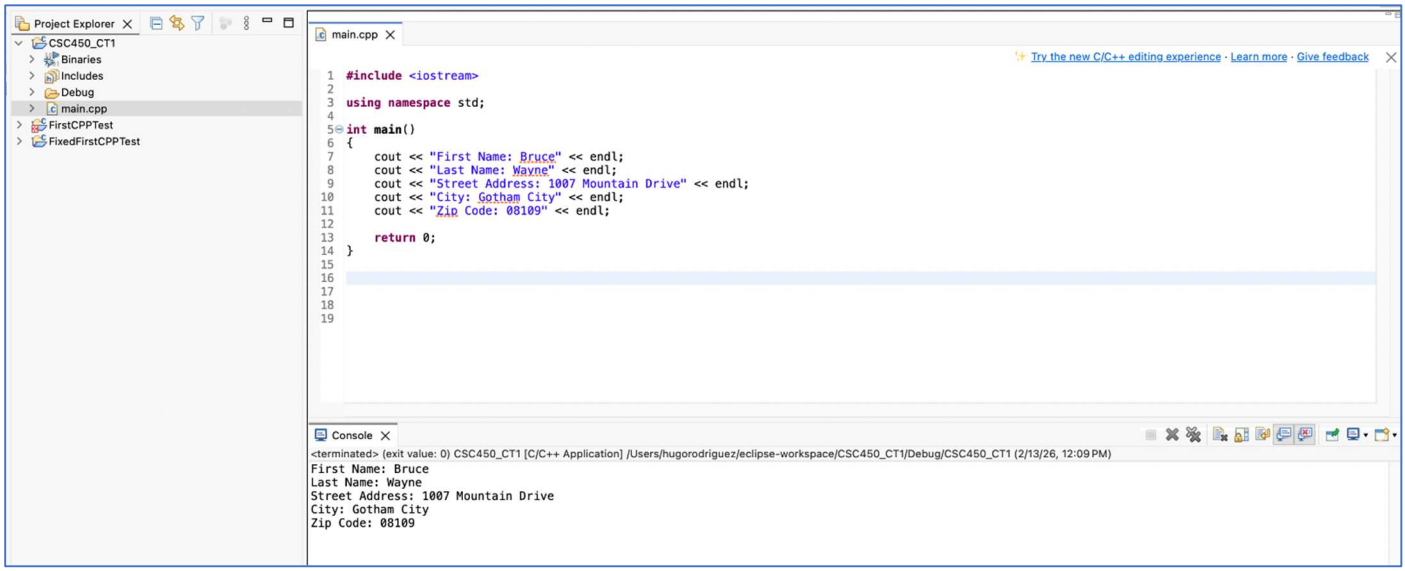

Figure 1. Console output demonstrating program execution

Syntax Error Corrections: mod1-1.cpp

This section focuses on correcting syntax errors in the provided file *CSC450_CT1_mod1-1.cpp*. The original file contained multiple issues, including improperly formatted comments, missing quotation marks, invalid statements, and missing return logic. After making the necessary corrections, the application was built and executed without errors.

Corrections Made

The following corrections were made to address compilation errors:

- Closed the initial comment block properly using */.
- Converted plain text lines into proper comments using //.
- Added missing quotation marks to string literals.
- Removed unnecessary header file (conio.h).
- Inserted the required return 0; statement.
- Ensured proper program structure with a correctly defined main() function.

Corrected Source Code

```
/* Simple Program with a few Errors for Correction

   Please be sure to correct all outlined errors.
```

```
*/

#include <iostream>

using namespace std;

// Main Function
int main()
{
	// Standard Output Statement
	cout << "Welcome to this C++ Program" << endl;

	cout << "I have corrected all errors for this program." << endl;

	// Main Function return Statement
	return 0;
}
```

Program Output

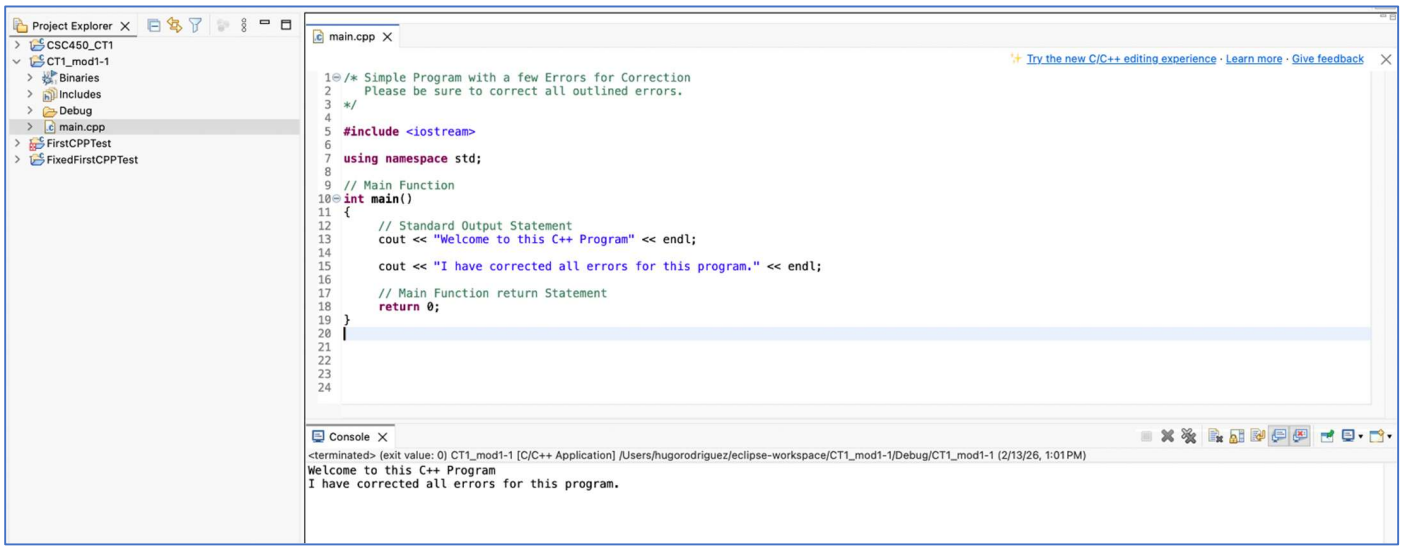

Figure 2. Console output after correcting syntax errors

Syntax Error Corrections: mod1-2.cpp

This section addresses the correction of syntax errors in the provided file *CSC450_CT1_mod1-2.cpp*. The original code contained several issues including improperly formatted comments, missing stream insertion operators, incomplete string literals, and an output statement that failed to reference a declared variable. After implementing the necessary corrections, the application built without errors and produced the expected output.

Corrections Made

The following syntax corrections were implemented:

- Converted plain text lines into proper comments using //.
- Removed the unnecessary header file (conio.h).
- Added the missing stream insertion operator (<<) in output statements.
- Corrected incomplete string literals by adding missing quotation marks.
- Modified the final output statement to correctly reference the declared variable myMoney.
- Ensured proper formatting and structure of the main() function.

Corrected Source Code

```
/* Simple Program with a few Errors for Correction
   Please be sure to correct all outlined errors.
*/

#include <iostream>

using namespace std;

// Main Function
int main()
{
     double myMoney = 1000.50;  // this should be printed out

     // Standard Output Statement
```

```
    cout << "Please be sure to correct all syntax errors in this
program" << endl;


    cout << "I have corrected all errors for this program." << endl;


    cout << "The total amount of money available is = " << myMoney <<
endl;


    // Main Function return Statement
    return 0;
}
```

Program Output

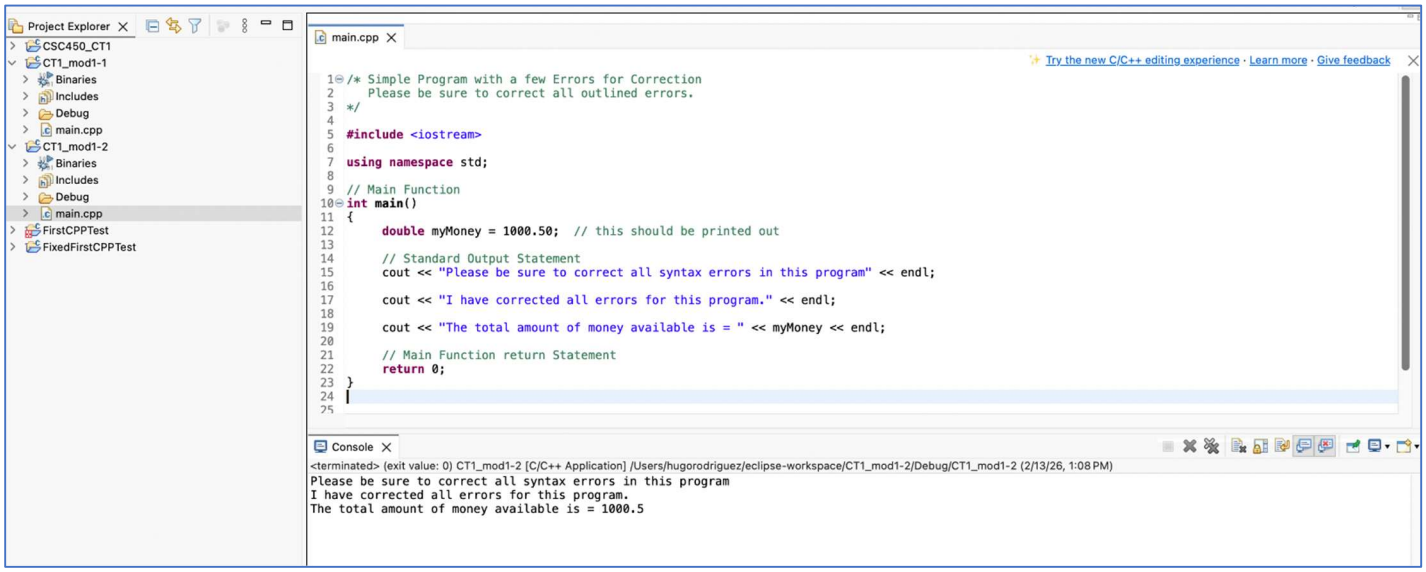

Figure 3. Console output after correcting syntax errors

Conclusion

This assignment strengthened my understanding of core C++ syntax and program execution within Eclipse IDE. By identifying and correcting syntax errors, I gained practical experience in debugging, proper comment formatting, stream insertion usage, and variable output. Successfully compiling and executing each program reinforced the importance of careful code structure and attention to detail in C++ development.