

# Project <1>



Name: Odalis R. Flores

Class: CMSC 140, CRN: 21714

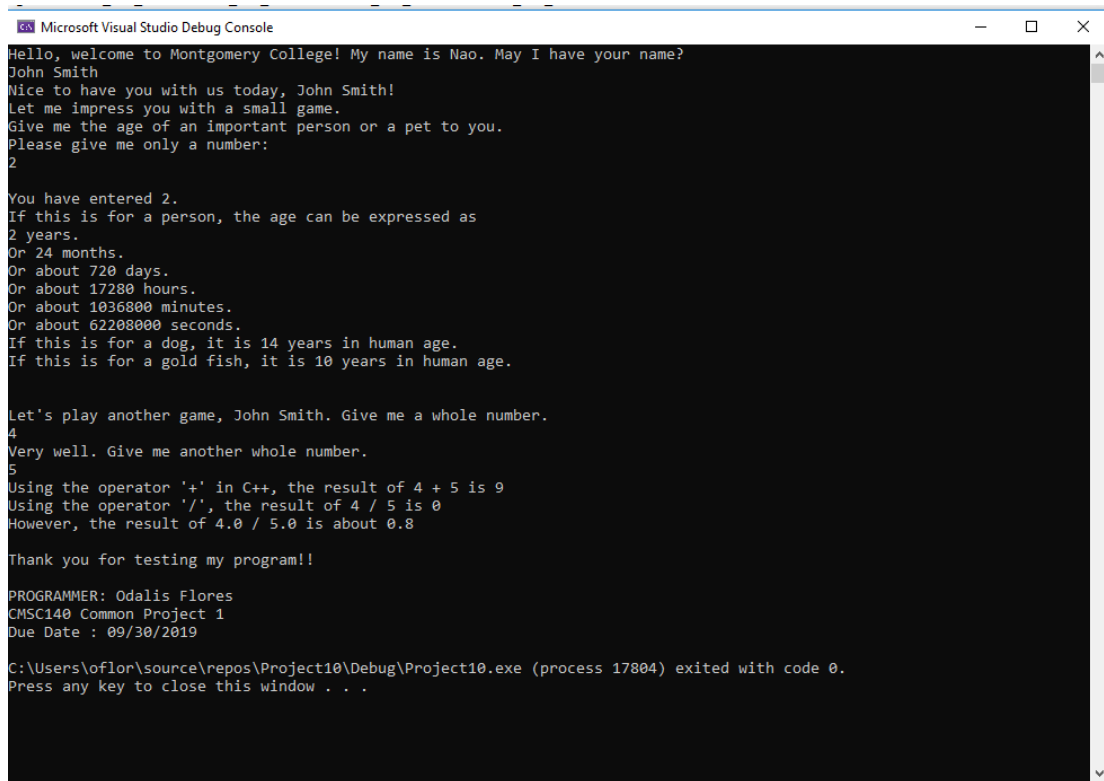
9/30/19

## Test Page

Test Case #	Input	Actual Input	Expected Output	Actual Output	Did the test pass?
1	2 4 5	2 4 5	24 720 17280 1036800 62208000 14 10 9 0 .8	24 720 17280 1036800 62208000 14 10 9 0 0.8	Y
2	89 89 98	89 89 98	1068 32040 768960 46137600 2768256000 623 445 187 0 0.9	1068 32040 768960 46137600 2768256000 623 445 187 0 0.9	Y
3	23 1005 963	23 1005 963	276 8280 198720 11923200 715392000 161 115 1968 1 1.0	276 8280 198720 11923200 715392000 161 115 1968 1 1.0	Y
4	2019 108 259	2019 108 259	24228 726840 17444160 1046649600 62798976000 14133 10095 367 0 0.4	24228 726840 17444160 1046649600 62798976000 14133 10095 367 0 0.4	Y

# Screenshots

## Case 1



A screenshot of the Microsoft Visual Studio Debug Console window. The window title is "Microsoft Visual Studio Debug Console". The text inside shows a program execution log. It starts with a greeting from "Nao" and asks for a name. "John Smith" is entered. Then, "Nao" asks for the age of an important person or a pet. The number "2" is entered. The program then displays various conversions for the age 2: 2 years, 24 months, 720 days, 17280 hours, 1036800 minutes, and 62208000 seconds. It also shows conversions for a dog (14 years) and a gold fish (10 years). Next, "Nao" asks for a whole number, and "4" is entered. Then, it asks for another whole number, and "5" is entered. The program then shows the results of arithmetic operations: 4 + 5 = 9, 4 / 5 = 0, and 4.0 / 5.0 = 0.8. Finally, it says "Thank you for testing my program!!" and shows the program exit message: "PROGRAMMER: Odalis Flores", "CMSC140 Common Project 1", "Due Date : 09/30/2019", and "C:\Users\oflor\source\repos\Project10\Debug\Project10.exe (process 17804) exited with code 0. Press any key to close this window . . .".

```
Microsoft Visual Studio Debug Console
Hello, welcome to Montgomery College! My name is Nao. May I have your name?
John Smith
Nice to have you with us today, John Smith!
Let me impress you with a small game.
Give me the age of an important person or a pet to you.
Please give me only a number:
2
You have entered 2.
If this is for a person, the age can be expressed as
2 years.
Or 24 months.
Or about 720 days.
Or about 17280 hours.
Or about 1036800 minutes.
Or about 62208000 seconds.
If this is for a dog, it is 14 years in human age.
If this is for a gold fish, it is 10 years in human age.

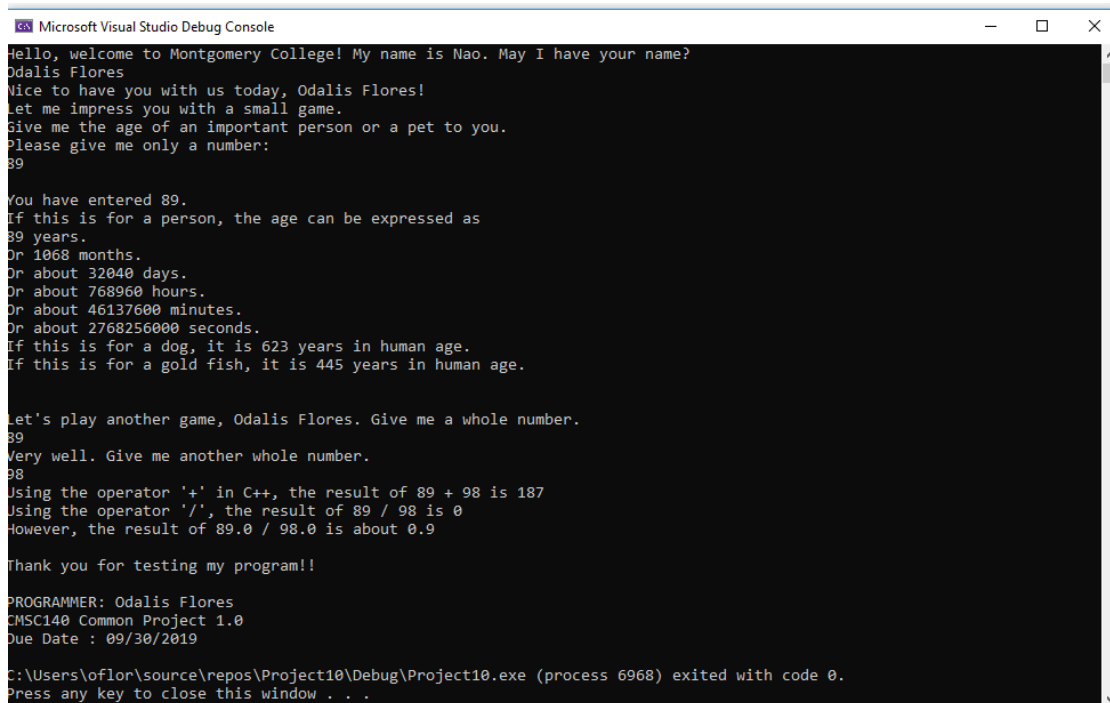
Let's play another game, John Smith. Give me a whole number.
4
Very well. Give me another whole number.
5
Using the operator '+' in C++, the result of 4 + 5 is 9
Using the operator '/', the result of 4 / 5 is 0
However, the result of 4.0 / 5.0 is about 0.8

Thank you for testing my program!!

PROGRAMMER: Odalis Flores
CMSC140 Common Project 1
Due Date : 09/30/2019

C:\Users\oflor\source\repos\Project10\Debug\Project10.exe (process 17804) exited with code 0.
Press any key to close this window . . .
```

## Case 2



A screenshot of the Microsoft Visual Studio Debug Console window. The window title is "Microsoft Visual Studio Debug Console". The text inside shows a program execution log. It starts with a greeting from "Nao" and asks for a name. "Odalis Flores" is entered. Then, "Nao" asks for the age of an important person or a pet. The number "89" is entered. The program then displays various conversions for the age 89: 89 years, 1068 months, 32040 days, 768960 hours, 46137600 minutes, and 2768256000 seconds. It also shows conversions for a dog (623 years) and a gold fish (445 years). Next, "Nao" asks for a whole number, and "89" is entered. Then, it asks for another whole number, and "98" is entered. The program then shows the results of arithmetic operations: 89 + 98 = 187, 89 / 98 = 0, and 89.0 / 98.0 = 0.9. Finally, it says "Thank you for testing my program!!" and shows the program exit message: "PROGRAMMER: Odalis Flores", "CMSC140 Common Project 1.0", "Due Date : 09/30/2019", and "C:\Users\oflor\source\repos\Project10\Debug\Project10.exe (process 6968) exited with code 0. Press any key to close this window . . .".

```
Microsoft Visual Studio Debug Console
Hello, welcome to Montgomery College! My name is Nao. May I have your name?
Odalis Flores
Nice to have you with us today, Odalis Flores!
Let me impress you with a small game.
Give me the age of an important person or a pet to you.
Please give me only a number:
89
You have entered 89.
If this is for a person, the age can be expressed as
89 years.
Or 1068 months.
Or about 32040 days.
Or about 768960 hours.
Or about 46137600 minutes.
Or about 2768256000 seconds.
If this is for a dog, it is 623 years in human age.
If this is for a gold fish, it is 445 years in human age.

Let's play another game, Odalis Flores. Give me a whole number.
89
Very well. Give me another whole number.
98
Using the operator '+' in C++, the result of 89 + 98 is 187
Using the operator '/', the result of 89 / 98 is 0
However, the result of 89.0 / 98.0 is about 0.9

Thank you for testing my program!!

PROGRAMMER: Odalis Flores
CMSC140 Common Project 1.0
Due Date : 09/30/2019

C:\Users\oflor\source\repos\Project10\Debug\Project10.exe (process 6968) exited with code 0.
Press any key to close this window . . .
```

# Screenshots

## Case 3

```
Microsoft Visual Studio Debug Console
Hello, welcome to Montgomery College! My name is Nao. May I have your name?
Elizabeth Lopez de Pangué
Nice to have you with us today, Elizabeth Lopez de Pangué!
Let me impress you with a small game.
Give me the age of an important person or a pet to you.
Please give me only a number:
23
You have entered 23.
If this is for a person, the age can be expressed as
23 years.
Or 276 months.
Or about 8280 days.
Or about 198720 hours.
Or about 11923200 minutes.
Or about 715392000 seconds.
If this is for a dog, it is 161 years in human age.
If this is for a gold fish, it is 115 years in human age.

Let's play another game, Elizabeth Lopez de Pangué. Give me a whole number.
1005
Very well. Give me another whole number.
963
Using the operator '+' in C++, the result of 1005 + 963 is 1968
Using the operator '/', the result of 1005 / 963 is 1
However, the result of 1005.0 / 963.0 is about 1.0

Thank you for testing my program!!

PROGRAMMER: Odalis Flores
CMSC140 Common Project 1.0
Due Date : 09/30/2019

C:\Users\oflor\source\repos\Project10\Debug\Project10.exe (process 7128) exited with code 0.
Press any key to close this window . . .
```

## Case 4

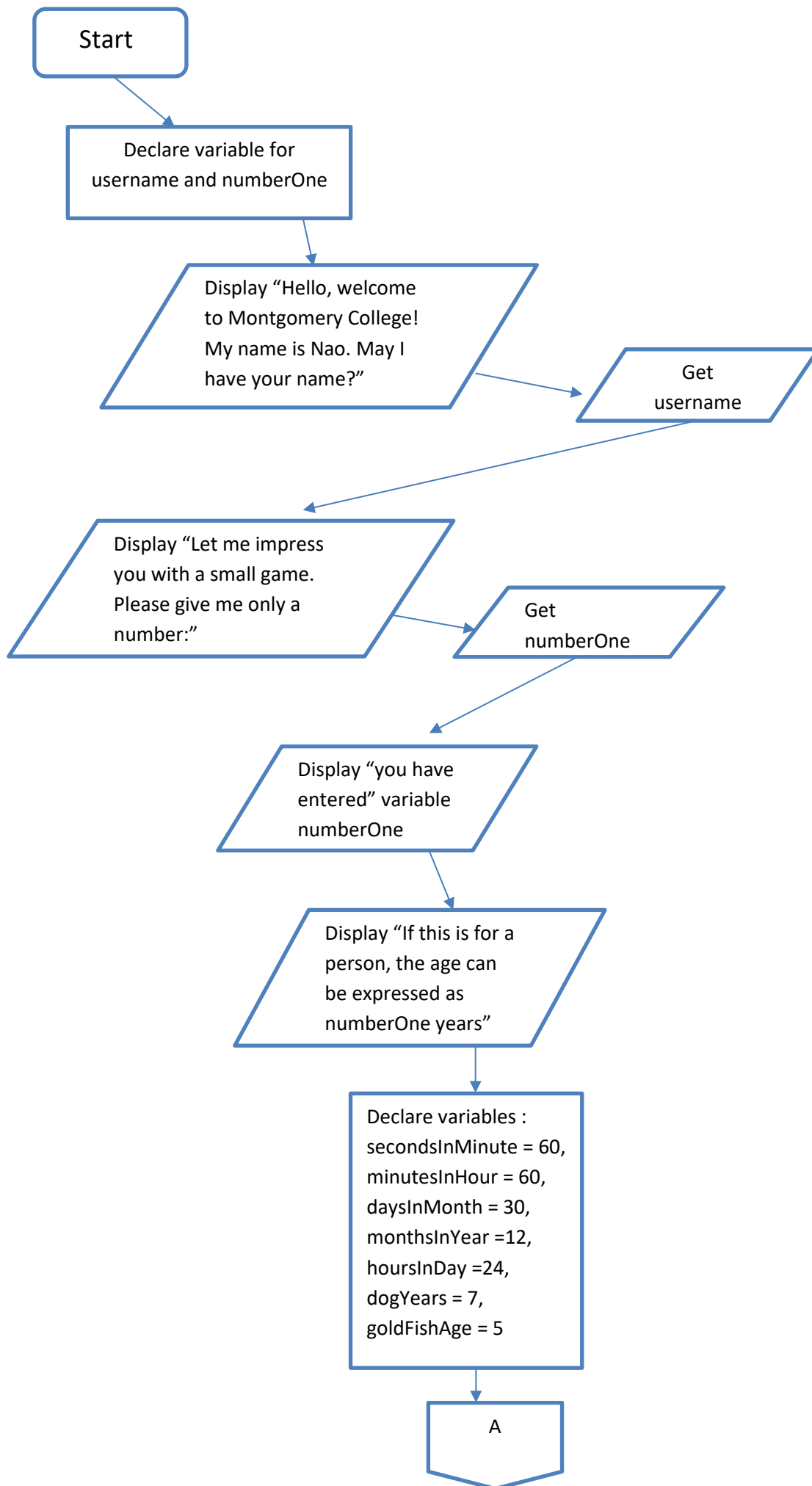
```
Microsoft Visual Studio Debug Console
Hello, welcome to Montgomery College! My name is Nao. May I have your name?
Haley Gutierrez, a third grader
Nice to have you with us today, Haley Gutierrez, a third grader!
Let me impress you with a small game.
Give me the age of an important person or a pet to you.
Please give me only a number:
2019
You have entered 2019.
If this is for a person, the age can be expressed as
2019 years.
Or 24228 months.
Or about 726840 days.
Or about 17444160 hours.
Or about 1046649600 minutes.
Or about 62798976000 seconds.
If this is for a dog, it is 14133 years in human age.
If this is for a gold fish, it is 10095 years in human age.

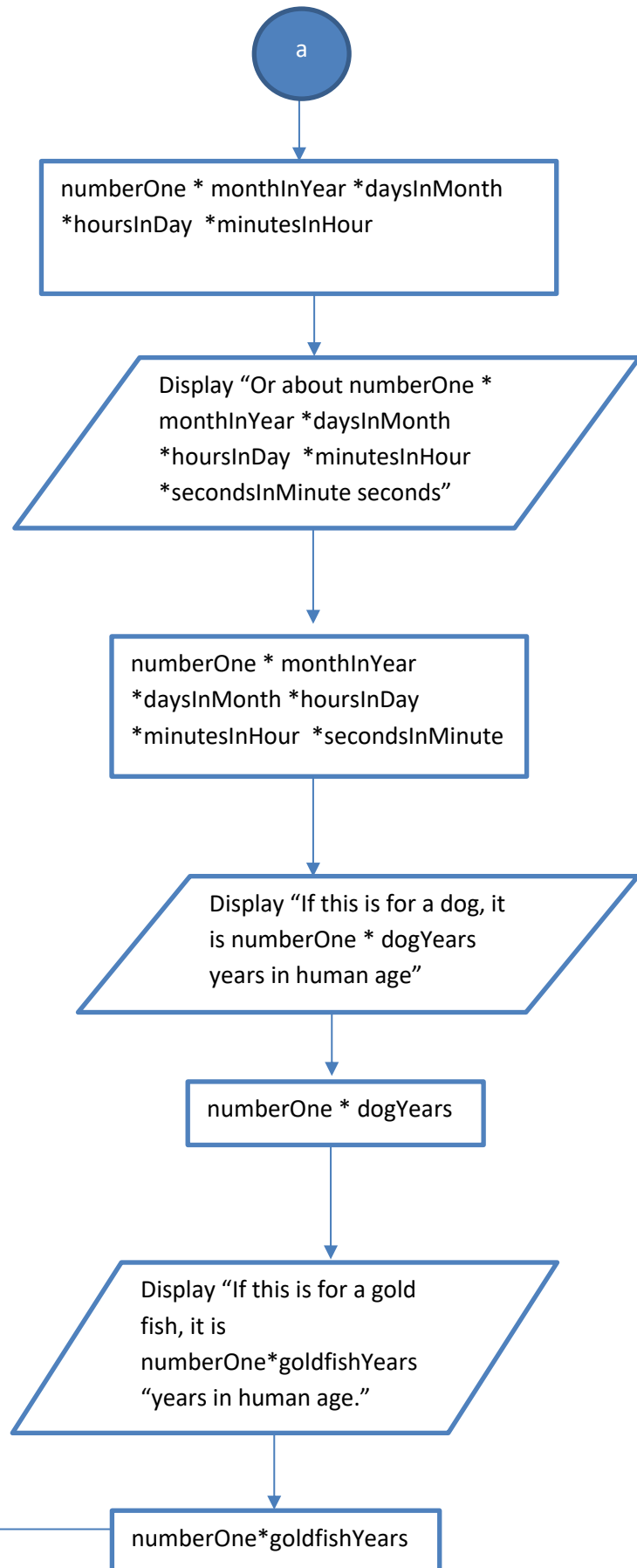
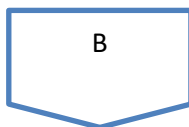
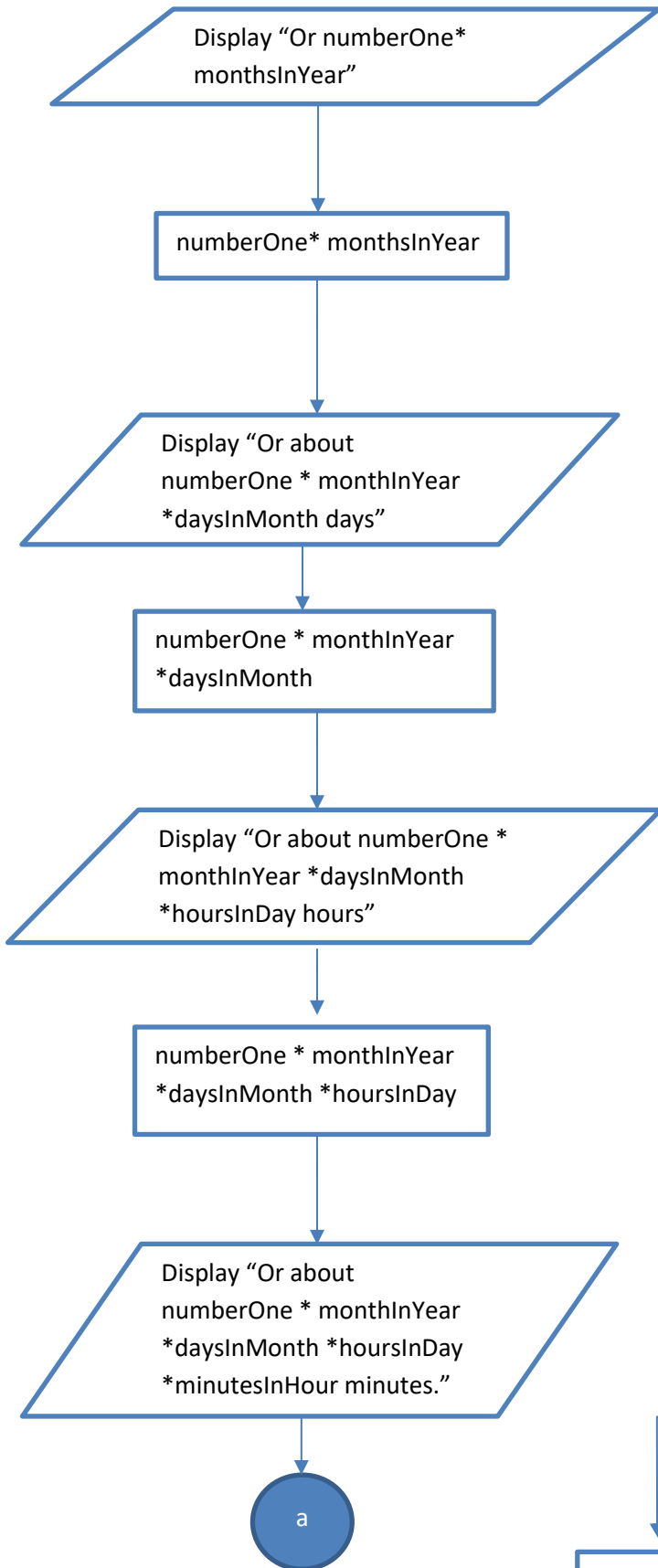
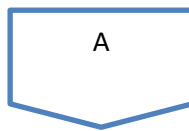
Let's play another game, Haley Gutierrez, a third grader. Give me a whole number.
108
Very well. Give me another whole number.
259
Using the operator '+' in C++, the result of 108 + 259 is 367
Using the operator '/', the result of 108 / 259 is 0
However, the result of 108.0 / 259.0 is about 0.4

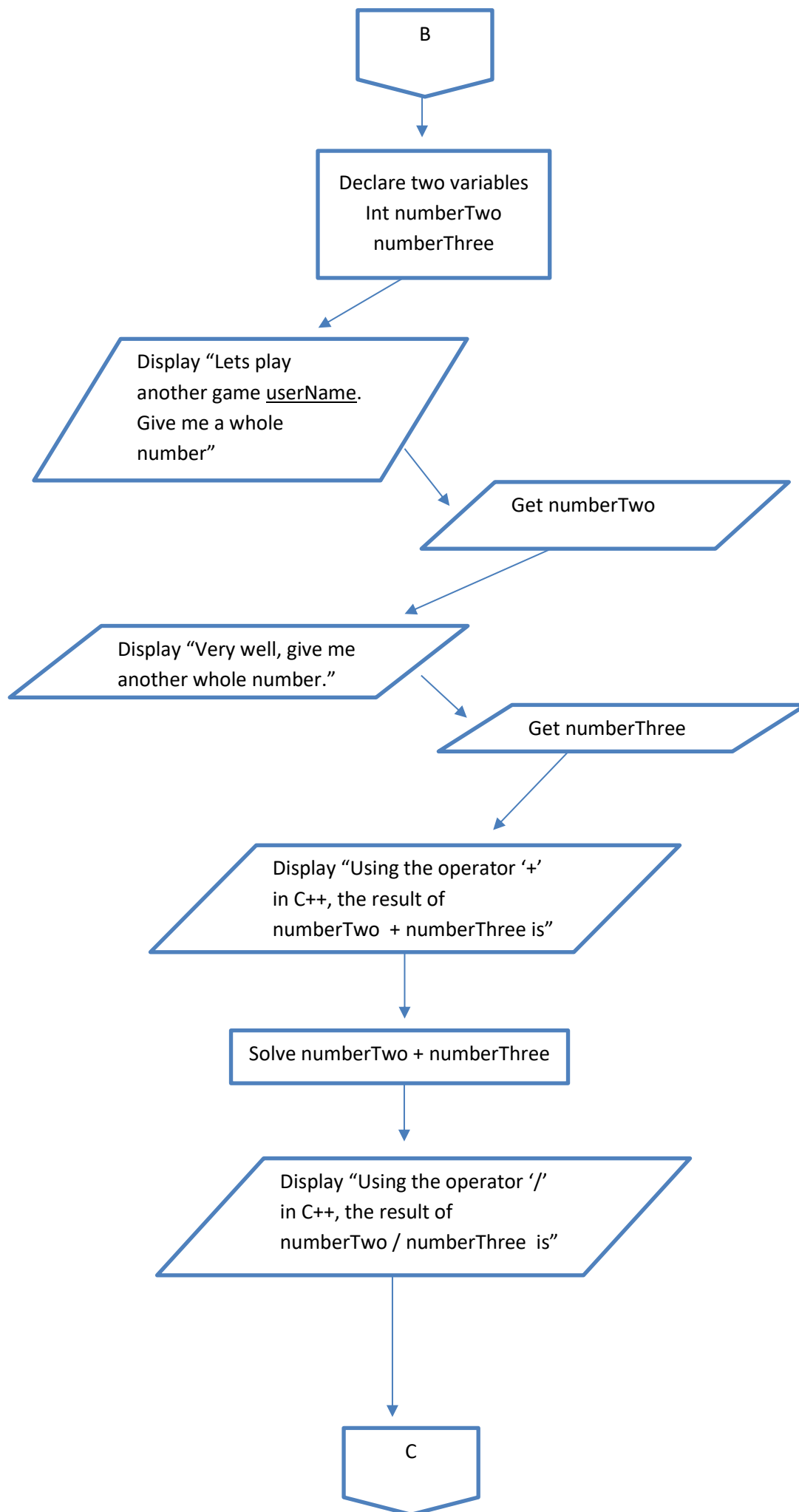
Thank you for testing my program!!

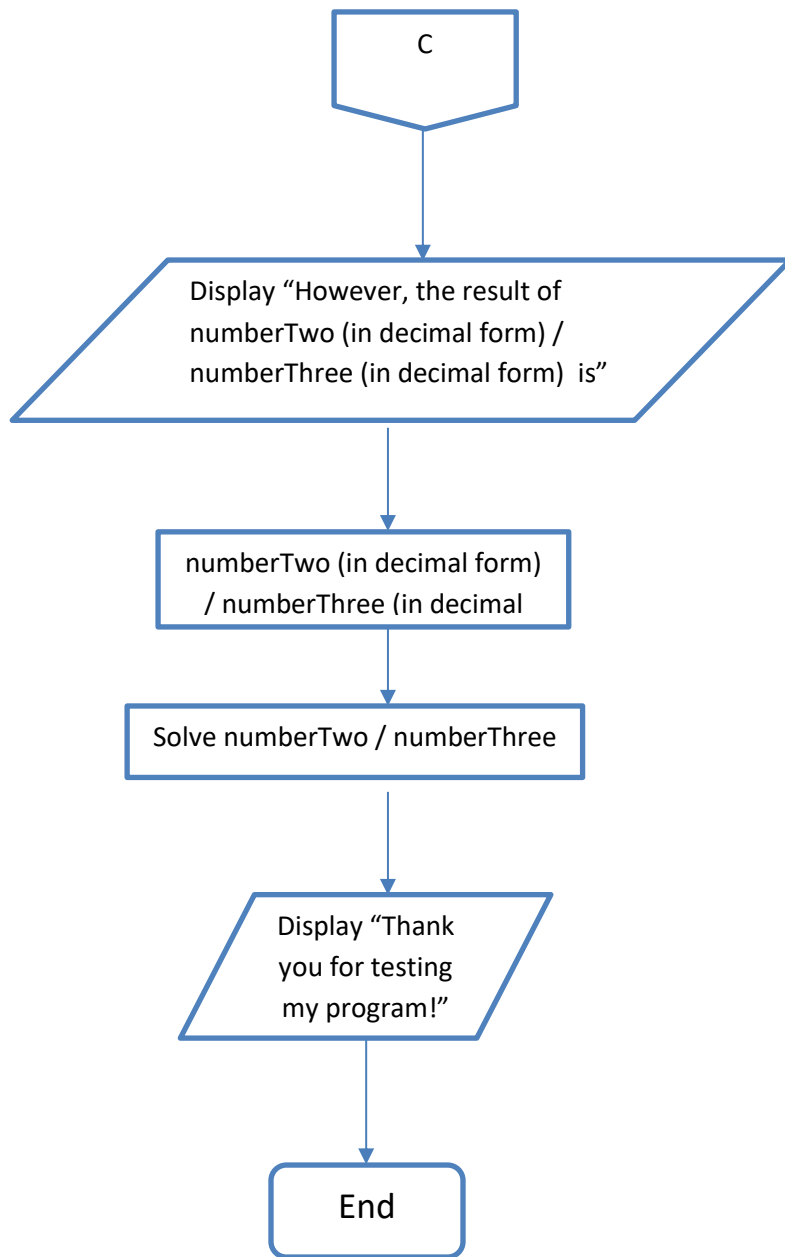
PROGRAMMER: Odalis Flores
CMSC140 Common Project 1.0
Due Date : 09/30/2019

C:\Users\oflor\source\repos\Project10\Debug\Project10.exe (process 9484) exited with code 0.
Press any key to close this window . . .
```











### **Lessons Learned during Project <1>**

While working on Project 1 I did run into many issues. I worked on the code before I started working on the flowchart. I think that making this mistake caused a lot of confusion on my end on where to begin. The flow chart states the variables being assigned as the code is being created but when I was creating the code in visual studio I found it more helpful to have all the variables assigned first so that I knew I was assigning them all correctly. When I was running the program, it was also easier to catch my mistakes.

Another issue I ran into is that there were too many files in project one module that gave me examples/templates and it was not all very clear until I read them all. I would've liked to have just one file with the grading criteria and project information. I had to do some editing after thinking I was finished because another file contained more information that should be added into my project code.

The most complicated situation for me was figuring out how to code the game when the user enters 2 whole numbers and we write the addition and division operand. The complicated part to me was displaying the number in decimal point. I had written different codes that all displayed what needed to be displayed and then I figured out what I was doing wrong and how to fix it. I was naming the variables integer data types. Therefore, when I tried to display the showpoint and setprecision I was unsuccessful until I realized I had to either cast the integer to a double or float because those data types do hold decimal values. When I attempted to declare the variable a double or float to begin with the other operands would give me the correct value but the wrong display therefore, I decided to cast the numbers.

Overall this was a very helpful project. It covers chapters 1-3 perfectly. If I could do something different for my project, I would have started a bit earlier and try to make time for tutoring sessions and I would read all the files for the project before getting started with flowchart/pseudocode or coding.