CMSC-140 Project #1

Test Plan Table

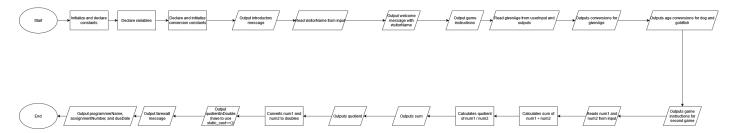
Test	Input	Expected	Actual Output	Did the test
<mark>Case</mark>		Output	· · · · · · · · · · · · · · · ·	<mark>pass?</mark>
#	_		<u>-</u> - <u>-</u>	<u></u>
1	2 4 5	24 720 17280 1036800 62208000 14 10	Mello, welcome to Montgomery College! My name is Nao. May I have your name? Micholas Nguyen Micholas Nguyen Micholas Nguyen Let me impress you with us today, Micholas Nguyen! Let me impress you with a small game. Give me the age of an important person or 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 or 24 months. or 7720 days. or 17520 hours. or 1951200 minutes.	According to my calculations, it did pass since the calculations for months, days, and hours in 2 years is inaccurate.
		.8	or 1097/000 sacconds. or 6097/000 seconds. If this is for a dog, it is 14 years old in human age. If this is for a goldfish, it is 10 years old in human age. Let's play another game, Nicholas Nguyen. 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 '/' in C++, the result of 4 / 5 is 0. However, the result of 4 / 5 is about 0.8. Thank you for testing my program!	
			PROGRAMMER: Nicholas Nguyen OMSC140 Common Project 1	
2	8¶ 2¶ 3	96¶ 2880¶ 70080¶ 4204800¶ 252288000	Nue Date: February 14, 2023 **********************************	Yes, it did pass the test.
			PROGRAMMER: Nicholas Nguyen CMSC140 Common Project 1 Due Date: February 14, 2023	

Pseudocode

- 1. Declare and initialize constants
- 2. Declare variables
- 3. Declare and initialize conversion constants
- ${\it 4.}\ {\it Output\ introductory\ message}$
- $5. \ {\bf Read\ visitor Name\ from\ user\ input}$
- 6. Output welcome message using visitorName
- 7. Output game instructions
- 8. Read givenAge from user input
- 9. Output givenAge
- 10. Output conversions of givenAge
- 11. Output age conversions for a dog and a goldfish
- 12. Output game instructions for the second game
- 13. Read num1 from user input
- 14. Read num2 from user input
- 15. Calculate sum = num1 + num2
- 16. Calculate quotient = num1 / num2
- 17. Output sum using operator '+'
- 18. Output quotient using operator '/'

- 19. Convert num1 and num2 to doubles
- 20. Calculate quotientInDouble = num1_double / num2_double
- 21. Output quotientInDouble
- 22. Output farewell message
- 23. Output programmerName, assignmentNumber, and dueDate
- 24. End the program

Flowchart



Questions to Answer

② Write about your Learning Experience, highlighting your lessons learned and learning experience from working on this project.

My learning experience from working on this project was pretty nice - I got to learn more about things that I've been curious about. So far, I already see things that transfer over from Java and, like Professor McGowan has told me, a lot of topics learned in coding are relative and are universal across all coding languages.

What have you learned?

From this project, I have learned how to use the cin and cout statements to display and prompt for things in the console. I also learned how to more effectively use operators, variables, and when necessary, constants.

What did you struggle with?

I honestly didn't really struggle with anything this project; however, while nothing stuck out to me as difficult, a lot of the coding was a bit repetitive and tedious, a lot of cout and cin statements taking up the majority of the project.

What would you do differently on your next project?

I may try out writing the pseudocode and doing the flowchart first before writing the code. I didn't do it this time since it's something I don't typically do (and actually never really did in my AP Java class last year). Though I do consider myself pretty good at learning visually, I tend to be pretty eager when jumping into things and don't tend to plan things out beforehand. While I don't think pseudocode and flowcharts will help me much with planning out my code, I will still give it a try next project I do.

What parts of this assignment were you successful with, and what parts (if any) were you not successful with?

I was successful with basically the entire assignment, though I was slightly confused with the test cases since they don't seem to match up with accurate conversions.

Provide any additional resources/links/videos you used to while working on this assignment/project.

N/A.