COSC2100

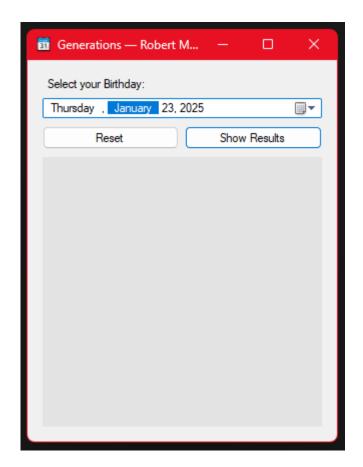
Robert Macklem

100955944

January 23, 2025

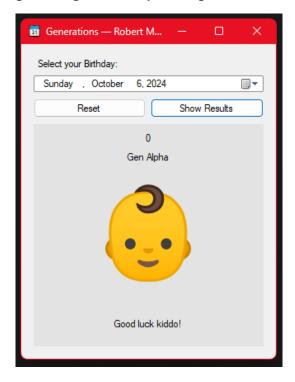
ICE 2 Report

Here is a screenshot of my running Windows Forms App, before any input has been provide by the user or any interaction has happened with the window:

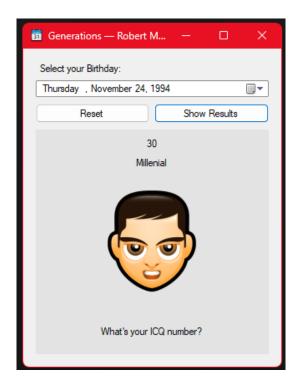


(cont.)

Here is a screenshot of the age result generated by clicking "Show Results":



And here is a final screenshot for a different set of results, in a different generation:



Questions:

Question 1: When can we **omit** the braces {} after an if-else statement?

Answer: We can omit the braces after an if-else statement if the execution for the block is a single statement. i.e. 'if' or 'else' is followed by a single statement or line of code.

Question 2: What is the difference between using if-else and switch-case?

Answer: A switch case is used for multiple discrete execution paths based one variable. An ifelse block can compare multiple variables and create more complex/branching control paths

Question 3: What is the difference between using a while and a do-while?

Answer: A while loop will execute (and keep executing) only when the condition is True. A dowhile loop always executes once and continues executing while the condition is True.

Question 4: What is the **difference** between using a **for** and a **foreach**?

Answer: A for loop loops a given number of times as set by the programmer. A foreach loop loops over **elements of a collection**, dynamically adjusting the loop count based on collection size.