Name: Lab7\_Knowlton

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Lab Number: 7

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BEGIN main

1. DECLARE birthdaysFile to open birthdays.txt
2. DECLARE birthdayScanner to scan through birthdaysFile
3. PRINT header line
4. PRINT “Lab 7 Birthday/Generations”
5. PRINT border line
6. DISPLAY “Name, Year, Month, Day, Age, and Generation” formatted into columns
7. PRINT border line
8. WHILE (birthdayScanner has the next line in the file)
   1. DECLARE birthYear using the next integer from the file
   2. DECLARE birthMonth using the next integer from the file
   3. DECLARE birthDay using the next integer from the file
   4. DECLARE nameOfPerson using the next string from the file
   5. CALCULATE ageOfPerson by calling yearsOfPerson and using birthYear as a parameter.
   6. CALCULATE generationOfPerson by calling yearGeneration and using ageOfPerson as a parameter.
   7. DISPLAY “nameOfPerson, birthYear, birthMonth, birthDay, ageOfPerson, and generationOfPerson” formatted into columns.
   8. PRINT border line
9. ENDWHILE
10. CLOSE birthdayScanner

END

BEGIN yearsOfPerson (int birthYear)

1. DECLARE givenYear and set to 2022
2. CALCULATE ageOfPerson by subtracting birthYear from givenYear
3. RETURN ageOfPerson

END

BEGIN yearGeneration (int ageOfPerson)

1. IF (ageOfPerson is below 6)
   1. RETURN “Generation Alpha”
2. ELSE IF (ageOfPerson is below 22)
   1. RETURN “Generation Z”
3. ELSE IF (ageOfPerson is below 38)
   1. RETURN “Millennials Generation”
4. ELSE IF (ageOfPerson is below 54)
   1. RETURN “Generation X”
5. ELSE IF (ageOfPerson is below 73)
   1. RETURN “Baby Boomers Generation”
6. ELSE IF (ageOfPerson is below 90)
   1. RETURN “Silent Generation”
7. ELSE
   1. RETURN “Greatest Generation”
8. ENDIF

END