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Lab Number: 3

Date: 7 February 2022

BEGIN

IMPORT Scanner and Random libraries

DECLARE scanner, random

DECLARE and SET score to 0

DECLARE userInput

DECLARE and SET q1\_num1 and q1\_num2 to next random number

DECLARE and SET q1\_ans to q1\_num1 plus q1\_num2

PRINT “What is {q1\_num1} + {q1\_num2} ?”

GET userInput from Scanner

COMPUTE userInput equals q1\_ans

IF true

PRINT “That answer is correct.”

SET score equal to score plus 1

ELSE

PRINT “Incorrect! The correct answer is {q1\_ans}”

DECLARE and SET q2\_num1 and q2\_num2 to next random number

DECLARE and SET q2\_ans to q2\_num1 plus q2\_num2

PRINT “What is {q2\_num1} + {q2\_num2} ?”

GET userInput from Scanner

COMPUTE userInput equals q2\_ans

IF true

PRINT “That answer is correct.”

SET score equal to score plus 1

ELSE

PRINT “Incorrect! The correct answer is {q2\_ans}”

DECLARE and SET q3\_num1 and q3\_num2 to next random number

DECLARE and SET q3\_ans to q3\_num1 plus q2\_num3

PRINT “What is {q3\_num1} + {q3\_num2} ?”

GET userInput from Scanner

COMPUTE userInput equals q3\_ans

IF true

PRINT “That answer is correct.”

SET score equal to score plus 1

ELSE

PRINT “Incorrect! The correct answer is {q3\_ans}”

DECLARE and SET q4\_num1 and q4\_num2 to next random number

DECLARE and SET q4\_ans to q4\_num1 plus q4\_num2

PRINT “What is {q4\_num1} + {q4\_num2} ?”

GET userInput from Scanner

COMPUTE userInput equals q1\_ans

IF true

PRINT “That answer is correct.”

SET score equal to score plus 1

ELSE

PRINT “Incorrect! The correct answer is {q4\_ans}”

DECLARE and SET scorePercentage = score times 25

PRINT “Congratulations! You scored a {scorePercentage}% !”

PRINT “Extra Credit”

PRINT “Please input a string:”

DECLARE and SET extraString1 to next line of scanner

PRINT “Please input another string: “

DECLARE and SET extraString2 to next line of scanner

PRINT “The length of String 1 is {extraString1.length()} and the length of String 2 is {extraString2.length()}”

DELCARE and SET equal to extraString1.equals(extraString2)

PRINT “Does String 1 equal String 2? {equal}”

DECLARE and SET stringConcat to extraString1.concat(extraString2)

PRINT “String 1 concat with String 2: {stringConcat}”

PRINT “String 1 Uppercase {extraString1.toUpperCase() String 2 Uppercase {extraString2.toUpperCase()}”

PRINT “String 1 at char position 7: {extraString1.charAt(6)} String 2 at char position 7: {extraString2.charAt(6)}

PRINT “Last letter of String 1: {extraString1.charAt(extraString1.length() - 1} Last Letter of String 2: {extraString2.charAt(extraString2.length() - 1)}”

END