Name: Lab4\_Knowlton

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Lab Number: 5

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BEGIN

INITIATE a scanner for user input and SET it as a variable named scanner

PRINT welcome message for user and request an integer from the user

READ integer from scanner and assign this value to an integer named num

INITIATE an integer variable named sum to hold the sum of factors and SET it as 0

INITIATE an empty string variable to hold the factors

FOR an integer i SET to 1, while i is less than the user given integer, increase i by 1

IF the user given integer divided by the current value of i has a remainder of 0 THEN

SET sum equal to the current value of sum plus the current value of i

IF i is equal to 1 THEN SET factors to an empty string appended with the value of i

ELSE APPEND factors with a comma and then the current value of i

ENDIF

ENDFOR

IF the user given integer is equal to the sum of the factors THEN

PRINT the user give integer is a perfect number!

PRINT the factors are the list of factors.

ELSE PRINT user given integer is not a perfect number.

ENDIF

CLOSE the scanner

END