**Digital Technologies Department**

**91076 Coding Assessment (Internal)**

Context and issue

A researcher is collecting and analysing data on TV viewing time for various people. Design a program to determine and print out someone’s name and their average weekly TV viewing time. Data entered is the name followed by the 7 recorded viewing times for the week. Also determine and printout the highest recorded viewing time for that person. For example, if the data entered is:

Wiremu Jones, 3, 1.2, 0, 4, 3.7, 6, 1.4

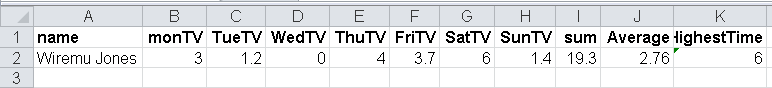
Output is:

Wiremu Jones

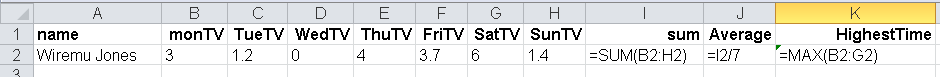
Average viewing time: 2.76 hours

Highest viewing time: 6 hours

Test Data of Expected inputs

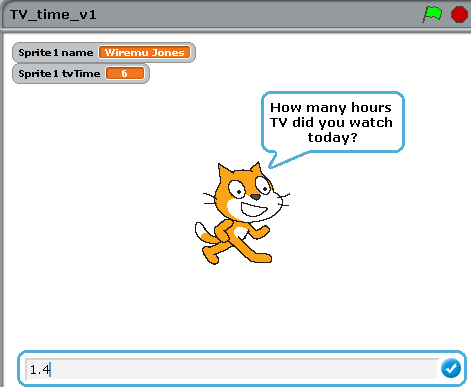


Formulas

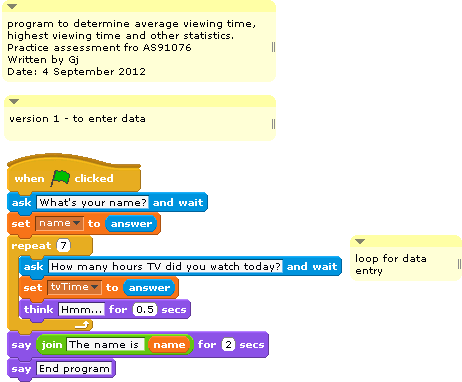


**Version 1 of Plan**

Output



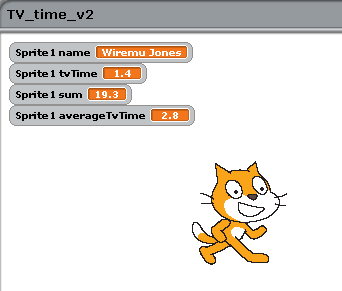
Data is entered in loop

Code for Version1

Put in statement for processing - changed time to 0.5 from 2 sec as took too long

**Version 2 of Plan**

Output

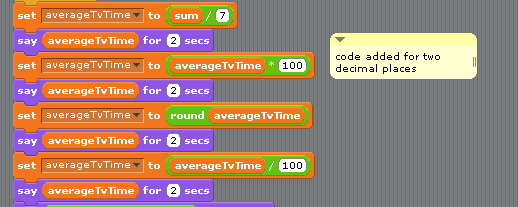


Correct values for sum and average - but not two decimal places for average

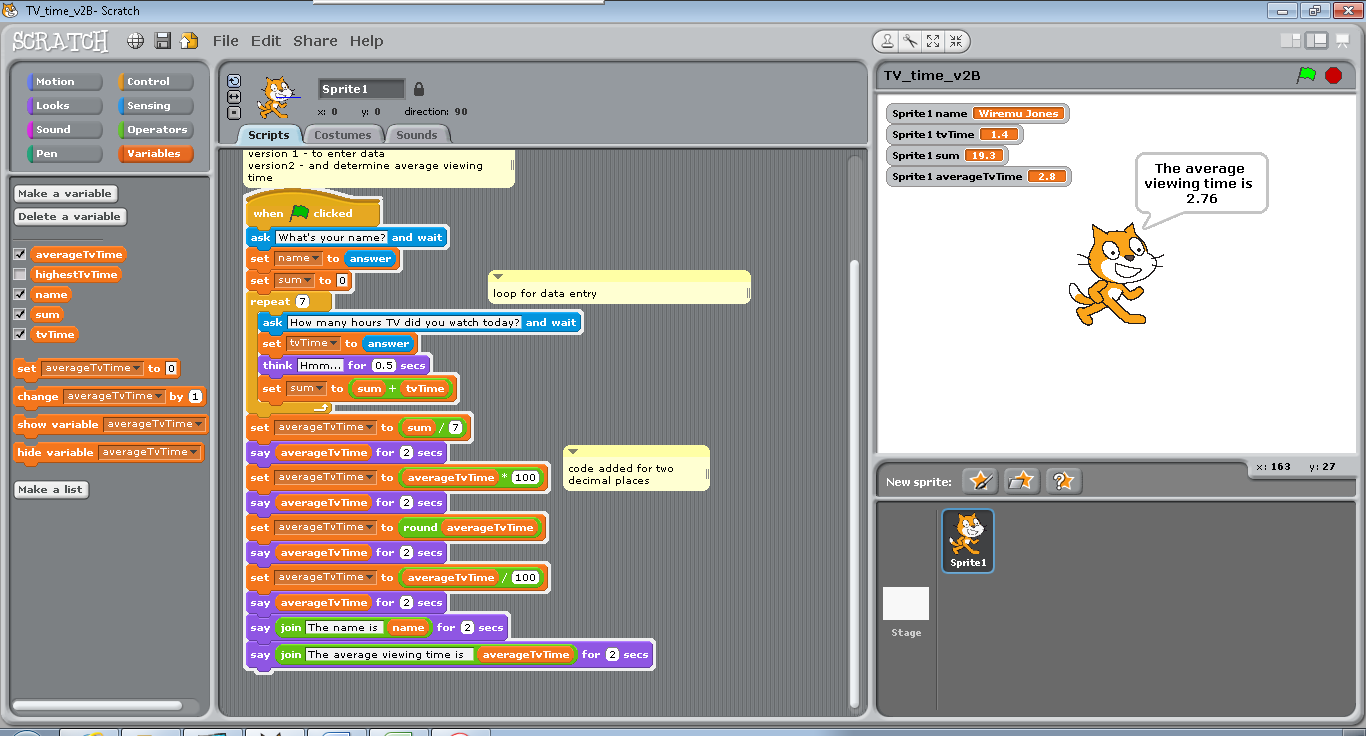
Error must be in this statement



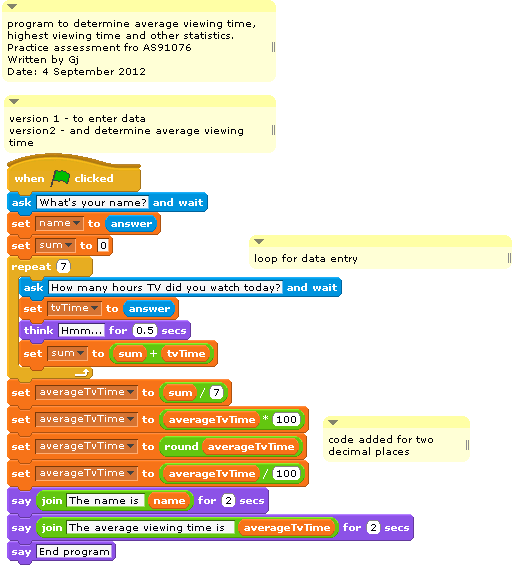
Added in following lines of code with print statements to check calculations



Now getting the correct answers, even though memory storage showing one decimal place

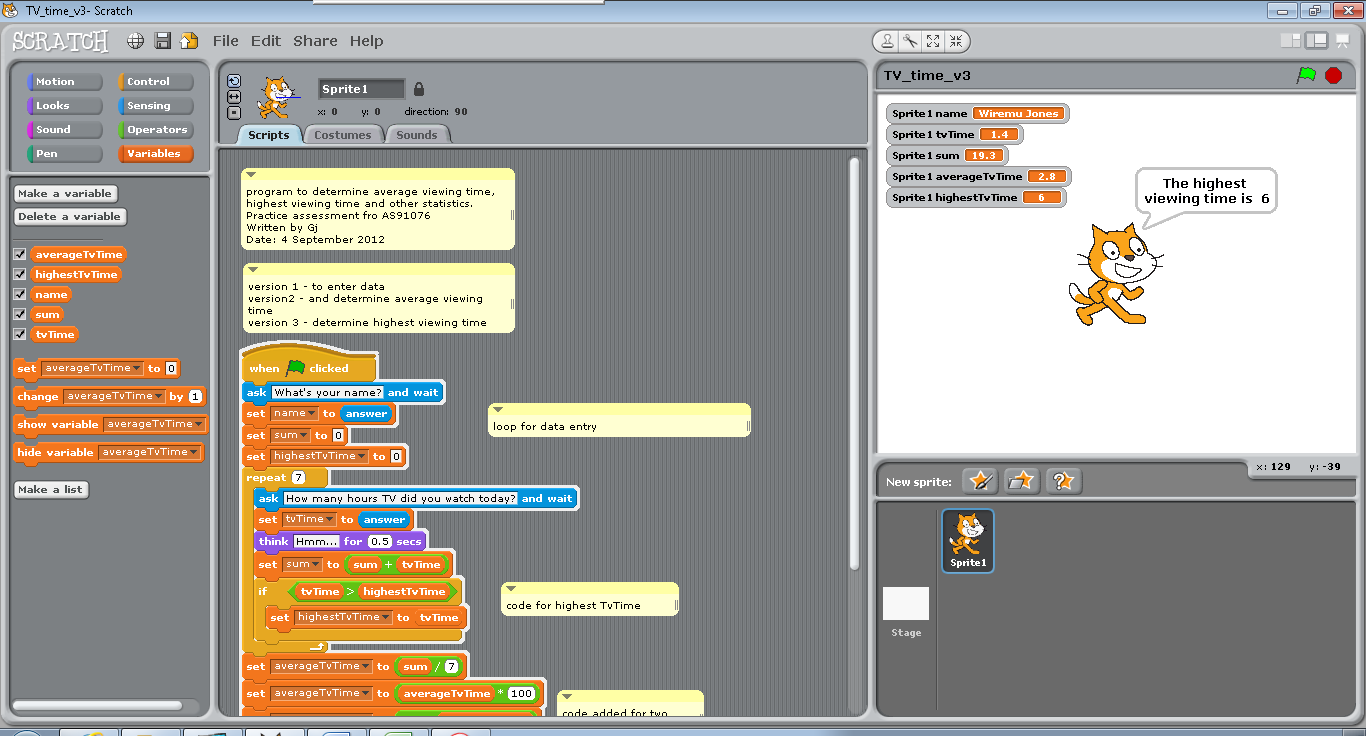


Tidied code for version 2 - without extra print/display statements



**Version 3 of plan**

Output



Output is correct with expected test data

Code for version 3

