

Three First Programs in JJ

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-- Name Anonymous          -- Name An Onymous          -- Name A. Nonymous
-- Does determine birth year -- Does format names        -- Does determine total cost of goods
-- Shows int type and in/out -- Shows use of string class Str -- Shows mix of ints & reals; documented

Box year ofType int        Boxes first, last, initial, space ofClass Str  Box quantity ofType int
Box age  ofType int        Set space = " "                                Boxes price, cost, tax,
                                                                    taxRate, total ofType real

Set year = 2000            Set comma = ", "

Output "How old are you? "  Output "Enter first name: "
Input age                  Input first
Outputln age               Outputln first

Output "You were born around " Output "Enter last name: "
Outputln (year - age)      Input last
Outputln " "              Outputln last

Output "Enter middle initial: "
Input initial
Outputln initial

Output "The full name is "
Output first + space + initial + ". " + last
Outputln " "

Output "The directory form is "
Output last + comma + space + first
Outputln " "

-- A typical run
--Enter first name: Bill
--Enter last name: Gates
--Enter middle initial: Q
--The full name is Bill Q. Gates
--The directory form is Gates, Bill

-- Some runs:
-- How old are you? 20
-- You were born around 1980
-- How old are you? 100
-- You were born around 1900
-- How old are you? -100
-- You were born around 2100

-- Compute cost, tax, total
Set cost = price * IntToReal (quantity)
Set tax  = cost * taxRate / 100.0
Set total = cost + tax

-- Output resulting total
Output "The total cost is "
Outputln total
Outputln " " -- gap between runs

-- Some runs:
-- Enter price 20.0
-- Enter quantity 30
-- The total cost is 660.0

-- Enter price 12.34
-- Enter quantity 56
-- The total cost is 760.144
```