

Sequential and selection process control structure



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Axia College Material Appendix G Sequential and Selection Process Control

Structure In the following example, the second line of the table specifies that

tax due on a salary of \$2000. 00 is \$225. 00 plus 16% of excess salary over

\$1500. 00 (that is, 16% of \$500. 00). Therefore, the total tax is \$225. 00 +

\$80. 00, or \$305. 00. || Salary Range in Dollars | Base Tax in Dollars |

Percentage of Excess | | 1 | 0. 00-1, 499. 99 | 0. 00 | 15 % | | 2 | 1, 500. 00-2,

999. 99 | 225. 00 | 16 % | | 3 | 3, 000. 00-4, 999. 99 | 465. 00 | 18 % | | 4 | 5,

000. 00-7, 999. 99 | 825. 00 | 20 % | | 5 | 8, 000. 00-14, 999. 99 | 1425. 00 |

25 % | | | | | Input | Processes | Output | | First Name | 1. Get User Input |

First Name | | Last Name | | Last Name | | Salary | | Salary | | Salary | 2.

Determine Range Category | Salary Range | | Salary Range Category | 3.

Determine Base Tax and Percentage of | Percentage Excess Total | |

Percentage of Excess | Excess | Base Tax | | Base Tax | | | | Salary | 4.

Determine Gross Salary | Gross Salary | | Percentage Excess Total | | | | Base

Tax | | | | First Name | 5. Display Gross Salary | First Name | | Last Name | |

Last Name | | Salary | | Salary | | Gross Salary | | Gross Salary | Main Module

Declare Name as string Declare SalaryAmt as real Declare Base as real

Declare Excess as real Declare Salary as real Declare ReRun as string Call

Input Data Module Call Range Module Call Salary1 Module Call Salary2

Module Call Salary3 Module Call Salary4 Module Call Salary5 Module Call

Output Module End Main Module Input Data Module Write, " Insert

Employee's First Name" Input FirstName Write, " Insert Employee's Last

Name" Input LastName Write, " What is the employee's salary? " Input

SalaryAmt Call Range Module End Input Data Module Range Module If

SalaryAmt < 1, 499. 99 Then Call Salary1 Module Else If SalaryAmt < 2, 999.

99 AND SalaryAmt > 1, 500. 00 Then Call Salary2 Module Else If SalaryAmt <

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4, 999. 99 AND SalaryAmt > 3, 000. 00 Then Call Salary3 Module Else If
SalaryAmt < 7, 999. 99 AND SalaryAmt > 5, 000. 00 Then Call Salary4
Module Else If SalaryAmt < 14, 999. 99 AND SalaryAmt > 8, 000. 00 Then
Call Salary5 Module Else Write, " The salary you have entered is out of range.
" Write, " Please enter a salary between 0 and 14, 999. 99. " Call Input
Module End Range Module Salary 1 Module Declare Excess as real Declare
Salary as Real Set Excess = SalaryAmt * . 015 Set Salary = SalaryAmt -
Excess Call Output Module End Salary1 Module Salary2 Module Declare Base
as real Declare Excess as real Declare Salary as real Set Base = SalaryAmt -
225 Set Excess = Base * . 16 Set Salary = Base - Excess Call Output Module
End Salary2 Module Salary3 Module Declare Base as real Declare Excess as
real Declare Salary as real Set Base = SalaryAmt - 465 Set Excess = Base * .
18 Set Salary = Base - Excess Call Output Module End Salary3 Module
Salary4 Module Declare Base as real Declare Excess as real Declare Salary
as real Set Base = SalaryAmt - 825 Set Excess = Base * . 20 Set Salary =
Base - Excess Call Output Module End Salary4 Module Salary5 Module
Declare Base as real Declare Excess as real Declare Salary as real Set Base
= SalaryAmt - 1425 Set Excess = Base * . 25 Set Salary = Base - Excess Call
Output Module End Salary5 Module Output Module Declare ReRun as string
Declare FirstName as string Declare LastName as string Declare Salary as
real Write, " The following is the gross salary for, " FirstName LastName
Salary Write, " Would you like to enter more salaries? Enter Y or N" Input
ReRun If ReRun = " Y" Then Call Input Module Else If ReRun = " N" Then End
Else Write, " Incorrect key entered. The program will now terminate. " End
End Output Module Test Values | Input | Expected Output | Comments | |
FirstName = Roger | | | LastName = Clark | The following is the gross

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salary for Roger| _____ || Salary = 11, 200. 00 | Clark: 7331. 25 || |

FirstName = Bill | | | | LastName = Wilson | The following is the Gross

Salary for Bill | _____ || Salary = 1, 200. 00 | Wilson: | | | | 1020. 00 | | |

FirstName = George | | | | LastName = Washington | The following is the

Gross Salary for | _____ || Salary = 3, 500 | George Washington: 2488. 70

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