

Programming Logic - Beginning

Program Evaluation Form Name: _____

Password Verifier (50 points):

IPO

- (1 point) Input column identifies all input fields
- (1 point) Output column identifies all Output fields
- (1 point) Meaningful variable names
- (1 point) Variable names follows naming convention
- (1 point) Processing logic describes what has to be done

Solution Algorithm

- (1 point) Names in algorithm match input and output variables name in IPO
- (1 point) Processing logic gets the correct variables
- (1 point) Processing logic follows flow of logic from IPO
- (1 point) Processing logic correctly solves the problem
- (1 point) Processing logic displays the correct variables

Desk Check

- (1 point) Two sets of test data
- (1 point) Correct expected results
- (1 point) Relevant variable names from algorithm are included in table
- (1 point) Correct statement numbers match algorithm
- (1 point) Two passes thru the algorithm

Screen Layout

- (1 point) Form includes all identified inputs and outputs from IPO
- (1 point) Descriptive Labels identify textbox objects
- (1 point) Descriptive labels identify output results
- (1 point) Form has a title
- (1 point) Flow of the form is logical (layout) and consistent
- (1 point) Common controls grouped

Controls, Names and Properties List

- (1 point) All controls from screen layout are listed
- (1 point) Valid control names
- (1 point) Values are listed for Controls
- (1 point) Step 1, 2, 3, and 5 are typed

Form Layout

- (1 point) Form title is appropriate
- (1 point) Textbox used to allow user to enter password
- (1 point) Appropriate ToolTips for each control on the form
- (1 point) All form objects appropriately labeled
- (1 point) Form objects have professional layout
- (1 point) Tab order is correct dollars to convert first

Form Objects

- (1 point) All form objects referenced in code are appropriately named
- (1 point) Button access keys are appropriate
- (1 point) Calculate button is form Accept(enter) button
- (1 point) Clear button is form Cancel(esc) button

Calculate Click Event

- (1 point) Variables have appropriate names, types and descriptions (comments)
- (1 point) Variables created for all inputs
- (1 point) All input values properly converted to variables
- (1 point) IsValid function should accept a string and return a Boolean
- (1 point) Message appropriate for invalid password
- (1 point) Message appropriate for valid password

IsValid Functions

- (1 point) Password should be at least six characters long
- (1 point) Password should contain 1 numeric and one alphabetic character

Clear Click Event

- (1 point) All textboxes cleared
- (1 point) All output labels cleared
- (1 point) Focus set to first input field after all processing complete

Exit Click Event

- (1 point) Program exits properly

General Coding

- (1 point) Appropriate in-line comments included

Testing

- (1 point) Use Desk Check Data for initial test
- (1 point) Additional tests as required