

# Programming Logic - Beginning

152-101

## Quiz Statistics Evaluation Form

Name \_\_\_\_\_

Score \_\_\_\_\_ / 20

Update Value \_\_\_\_\_

[Make all corrections and resubmit to earn update points](#)

☒ Update Recommended

### Quiz Statistics Project

- ☐ (½ point) Appropriate project icon (can be same as form icon)
- ☐ (½ point) Form file names match form object names (frmXxxx).

### Welcome Screen

- ☐ (½ point) Form centered on screen
- ☐ (½ point) Form title is appropriate
- ☐ (½ point) Form includes application name
- ☐ (½ point) Form appearance is professional
- ☐ (½ point) Timer included that launches application after 5 seconds
- ☐ (½ point) Button included to start application immediately
- ☐ (½ point) Button included to exit application immediately (Cancel button)
- ☐ (½ point) Method documentation (grammatically correct) included for all methods

### Form Layout

- ☐ (½ point) Appropriate form icon
- ☐ (½ point) Form centered on screen
- ☐ (½ point) Form title is appropriate
- ☐ (½ point) Group boxes used to group similar items
- ☐ (½ point) Group boxes are appropriately labeled
- ☐ (½ point) Date picker used to get quiz date
- ☐ (½ point) Textboxes used to allow user to enter five quiz scores
- ☐ (½ point) Labels used to display percentages for each quiz
- ☐ (½ point) Labels used to display quiz statistics (total, average, average percent)
- ☐ (½ point) Label used to display next quiz date
- ☐ (½ point) Form includes appropriate piece of clipart
- ☐ (½ point) All form objects appropriately labeled
- ☐ (½ point) Form objects have professional layout
- ☐ (½ point) Tab order is appropriate
- ☐ (½ point) All form objects referenced in code are appropriately named
- ☐ (½ point) Button access keys are appropriate
- ☐ (½ point) Calculate button is form Accept button
- ☐ (½ point) Clear button is form Cancel button

### Program Constants

- ☐ (½ point) Maximum quiz value defined using a constant
- ☐ (½ point) Days to next quiz defined using a constant
- ☐ (½ point) Constants have appropriate names (UPPERCASE), types and descriptions
- ☐ (½ point) Constants defined outside event methods, inside form class

### **Calculate Click Event**

- ☐ (1/2 point) Variables created for all inputs
- ☐ (1/2 point) Variables created for all outputs
- ☐ (1/2 point) Inputs are appropriately typed
- ☐ (1/2 point) Outputs are doubles
- ☐ (1/2 point) Variables have appropriate names (camelBack), types and descriptions (comments)
- ☐ (1/2 point) Try-Catch used to catch input errors
- ☐ (1/2 point) Error message appropriate
  
- ☐ (1/2 point) All input values properly converted to variables
- ☐ (1/2 point) Quiz percentages calculated correctly (doubles)
- ☐ (1/2 point) Total of all scores calculated correctly
- ☐ (1/2 point) Average of all scores calculated correctly (double)
- ☐ (1/2 point) Average percentage calculated correctly
- ☐ (1/2 point) Next quiz date calculated correctly
  
- ☐ (1/2 point) Percentages displayed with 1 decimal place Format as percent
- ☐ (1/2 point) Total score formatted appropriately
- ☐ (1/2 point) Quiz average formatted appropriately
- ☐ (1/2 point) Date formatted as short date (or custom)
- ☐ (1/2 point) Focus set to Clear button after all processing complete

### **Clear Click Event**

- ☐ (1/2 point) Inputs cleared
- ☐ (1/2 point) Quiz date set to today's date
- ☐ (1/2 point) All output labels cleared
- ☐ (1/2 point) Focus set to first input field

### **Exit Click Event**

- ☐ (1/2 point) Program exits properly

### **Form Load Event**

- ☐ (1/2 point) Maximum quiz value displayed in one label (Max: ##)
- ☐ (1/2 point) DatePicker initialized to current date
  
- ☐ (1/2 point) Defines form Welcome variable pointer
- ☐ (1/2 point) Displays form as Dialog and saves result
- ☐ (1/2 point) If user selects exit button, application immediately ends

### **Indentation**

- ☐ (1/2 point) Source code indented properly

### Challenge Points

- ☐ (+1 point) If all requirements met (limited to +1 for all unit 4 programs)
  - ☐ (½ point) Version number displayed on the form
  - ☐ (½ point) Version number displayed in an appropriate location
  - ☐ (½ point) Version number defined using a constant
  - ☐ (½ point) Version constant added to form
  
- ☐ (+1 point) If all requirements met (limited to +1 for all unit 4 programs)
  - ☐ (½ point) Next Quiz Date displayed using a custom date format
  - ☐ (½ point) Custom date format is appropriate
  
- ☐ (+1 point) If all requirements met (limited to +1 for all unit 4 programs)
  - ☐ (½ point) Exit button anchored to bottom right
  - ☐ (½ point) Calc and Clear buttons anchored to bottom left
  - ☐ (½ point) Version number (if provided) anchored appropriately

### Form Level Documentation

- ☐ (½ point) Methods alphabetized
- ☐ (½ point) Spacing used to make code readable
- ☐ (½ point) Appropriate in-line comments included
  
- ☐ (½ point) Each method includes a purpose description.
- ☐ (½ point) Purpose descriptions use complete sentences, grammatically correct, without spelling errors.
- ☐ (½ point) Purpose descriptions are accurate

### Program Documentation

- ☐ (½ point) Documentation module created
- ☐ (½ point) Documentation appearance is professional
- ☐ (½ point) Program name included
- ☐ (½ point) Student's name included
- ☐ (½ point) Program date included
- ☐ (½ point) Program's purpose uses complete sentences, is grammatically correct, without spelling errors.
- ☐ (½ point) Program's purpose is accurate and complete
  
- ☐ (½ point) Forms listed alphabetically
- ☐ (½ point) Form purpose descriptions use complete sentences, grammatically correct, without spelling errors.
- ☐ (½ point) Form purpose descriptions are accurate and complete
  
- ☐ (½ point) Change log included
- ☐ (½ point) (Updates only) Updates documented in change log

**Program Design**

- ☐ (½ point) btnCalc sequence of commands same in design and code
- ☐ (½ point) btnClear sequence of commands same in design and code
- ☐ (½ point) Variable and object names in code same as in design date
- ☐ (½ point)