

Programming Logic - Beginning
152-101

Unit 5 – Belts Ice Cream Evaluation Form

Name _____

Score _____ / 20

Update Value _____

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

☒ Update Recommended

Form Objects

- ☐ (½ point) Form centered on screen, icon changed, title bar
- ☐ (½ point) Radio buttons added to form to allow user to select type of sundae
- ☐ (½ point) Radio buttons added to form to allow user to select size of sundae
- ☐ (½ point) Radio buttons appropriately named
- ☐ (½ point) Check boxes added to form to allow user to select toppings
- ☐ (½ point) Check boxes appropriately named
- ☐ (½ point) Calculate button is form Accept button
- ☐ (½ point) Clear button is form Cancel button
- ☐ (½ point) Tab order is appropriate

Form Constants and Variables

- ☐ (½ point) Class-level variables created to hold value for current radio buttons
- ☐ (½ point) Class-level constants created for costs for each type of sundae
- ☐ (½ point) Class-level constants created for costs for each size of sundae
- ☐ (½ point) Class-level constants created for toppings costs (2 constants)
- ☐ (½ point) Class-level constant created for discount percentage
- ☐ (+½ point) Class-level constants created to hold number of toppings threshold
- ☐ (+½ point) Class-level constants created to describe “special”
- ☐ (½ point) Class-level variables and constants are appropriately named, typed and described

Calculate Click Event

- ☐ (½ point) Method has variable for number of sundaes ordered
- ☐ (½ point) Variable has appropriate name, is of type integer, and is appropriately described
- ☐ (½ point) Try-Catch block used to capture input errors (if appropriate)
- ☐ (½ point) Error message appropriate
- ☐ (½ point) Number of sundaes input transferred to variable
- ☐ (½ point) Variables created to hold three outputs.
- ☐ (½ point) Output variables have appropriate names, are of type decimal, and are appropriately described
- ☐ (½ point) Topping cost calculated by determining the number of selected toppings
- ☐ (½ point) Number of toppings multiplied by correct constant
- ☐ (½ point) Sundae cost calculated by adding sundae type cost and size cost
- ☐ (½ point) Total cost calculated correctly
- ☐ (½ point) Calculation included to give 20% (const) discount for large, strawberry sundaes
- ☐ (½ point) Program displays cost without toppings, topping cost and total cost
- ☐ (½ point) Outputs are appropriately formatted

- ☐ (½ point) Additional label included that shows order information
- ☐ (½ point) Label concatenates number of sundaes, size of sundae, type of sundae and total cost of sundae.
- ☐ (½ point) Label message is a complete sentence without grammatical errors
- ☐ (+½ point) Code handles single/plural *sundae* properly
- ☐ (+½ point) Message includes selected toppings.
- ☐ (+½ point) Selected toppings included in a grammatically correct way
- ☐ (½ point) Focus set to btnClear after all processing

Clear Click Event

- ☐ (½ point) *Clear* method selects default radio buttons
- ☐ (½ point) Clears all check boxes
- ☐ (½ point) Resets the quantity control
- ☐ (½ point) All outputs cleared
- ☐ (½ point) Sets focus to first input

Form Load Event

- ☐ (½ point) Form Load selects default radio buttons

Radio Button Check Changed Event

- ☐ (½ point) Radio button Checked Changed events merged into two methods
- ☐ (½ point) Method created to determine sundae flavor and cost
- ☐ (½ point) All flavor buttons wired to this method
- ☐ (½ point) Method created to determine sundae size and cost
- ☐ (½ point) All size buttons *wired* to this method
- ☐ (½ point) Case statements used to determine appropriate values
- ☐ (½ point) Individual cases set appropriate values

Indentation

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

Form Level Documentation

- ☐ (1/2 point) Methods alphabetized
- ☐ (1/2 point) Spacing used to make code readable
- ☐ (1/2 point) Appropriate in-line comments included

- ☐ (1/2 point) Each method includes a purpose description.
- ☐ (1/2 point) Purpose descriptions use complete sentences, grammatically correct, without spelling errors.
- ☐ (1/2 point) Purpose descriptions are accurate

Program Documentation

- ☐ (1/2 point) Documentation appearance is professional (can be combined with Form documentation)
- ☐ (1/2 point) Program name included
- ☐ (1/2 point) Student's name included
- ☐ (1/2 point) Program date included
- ☐ (1/2 point) Program's purpose uses complete sentences, is grammatically correct, without spelling errors.
- ☐ (1/2 point) Program's purpose is accurate and complete

- ☐ (1/2 point) Change log included with initial submission date
- ☐ (1/2 point) (Updates Only) Dated change log entry provided

Program Design

- ☐ (1/2 point) Pseudocode for btnCalc matches code
- ☐ (1/2 point) Pseudocode for radio button processing matches code
- ☐ (1/2 point) Flowcharts match pseudocode
- ☐ (1/2 point) Labels provided for all flowchart IF and CASE paths