## **Programming Logic - Beginning** 152-101

Name		
Score	/ 10	
Update Value		
Make all corrections and resubmit to earn update points		

## **Gas Estimate Program Design Evaluation Form**

☑ Update Recommended

	(½ point) (½ point) (½ point) (½ point) (½ point) (½ point) (½ point) (½ point) (½ point)	Eight inputs included Inputs do not include verbs Three outputs included Outputs do not include verbs Processing includes getting inputs Each output calculated Processing includes displaying outputs Variable names are appropriate (camelBack)
Scr	een Layout (½ point)	Screen layout includes textboxes for seven inputs Date input appears as a date picker Inputs labeled properly Layout includes labels for three outputs Outputs labeled properly Layout appearance is appropriate
TO	E (½ point) (½ point) (½ point) (½ point)	Task list includes <i>getting</i> eight inputs Object names for inputs appropriate Date object is a date picker Events for all inputs designated as None
	(½ point) (½ point) (½ point)	Task list includes calculating three outputs Object for all calculations is calculate button Event for all calculation is Click (for calculate button)
	(½ point) (½ point) (½ point) (½ point) (½ point)	Task list includes clearing the form Object list for clearing form includes btnClear, all input fields, all output fields Clear Object/Event is Clear button Click Task list includes ending program End program Object/Event is Exit button Click
	(½ point) (½ point) (½ point)	Task list includes displaying all outputs Objects for outputs named appropriately (labels) Events for all outputs designated as Calculate button Click

## Pseudocode

btnCalculate.Click				
	(½ point)	Event name designated		
	(½ point)	Six inputs first transferred to variables (2 not needed for calcs)		
	(½ point)	Equation for gallons needed correct		
	(½ point)	Equation for gas cost correct		
	(½ point)	Equation for estimate expiration date correct		
	(½ point)	Equation results transferred to labels		
	(½ point)	End statement included		
	(½ point)	Statements between event name and End indented		
htn	Clear.Click			
	(½ point)	Event name designated		
	(½ point) (½ point)	Seven textboxes cleared (inputs)		
	(½ point)	Date picker set to current date (input)		
	(½ point)	Three output labels cleared		
	(½ point)	End statement included		
	(½ point)	Statements between event name and End indented		
_	(/2 point)	Statements between event name and End indented		
	Exit.Click			
	(½ point)	Event name designated		
	(½ point)	Command to close form included		
	(½ point)	End statement included		
	(½ point)	Statements between event name and End indented		
Flowchart				
	(½ point)	Flowchart logic matches pseudocode logic, line for line		
	(½ point)	Correct terminal symbols used		
	(½ point)	Correct symbols used when transferring inputs to variables		
	(½ point)	Correct symbols used for calculations		
	(½ point)	Correct symbols used for transferring outputs to labels		
	(½ point)	Correct symbols used for clearing objects		
	(½ point)	Correct symbol used for closing form		
Tes	t Plan			
	(½ point)	Test plan includes five sets of sample inputs		
	(½ point)	Anticipated equations provided for each set of sample data		
	(½ point)	Anticipated results provided for each set of sample data		
	(½ point)	Test included to test month/year boundary		
	(½ point)	Test included for city miles or highway miles equal zero		
	(½ point)	One input that causes error included		
	(½ point)	Sample data varied enough to test program		
	· I · · · /	1 0 1 0 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1		