

# Programming Logic - Beginning

Program Evaluation Form Name: \_\_\_\_\_

## Health Club Calculator:

### Form Objects

- (1 point) All form objects referenced in code are appropriately named
- (1 point) All form objects have the correct Text on form
- (1 point) Button access keys are appropriate
- (1 point) Label access keys are appropriate
- (1 point) Tab order is appropriate
- (1 point) Calculate button is form Accept(enter) button
- (1 point) Clear button is form Cancel(esc) button

### Class Level Constants

- (1 point) Constant created where appropriate
- (1 point) Constant has appropriate name, type and value

### Calculate Click Event

- (1 point) Variables have appropriate names, types and descriptions (comments)
- (1 point) All input values properly converted to variables
- (1 point) TryParse used to check for valid integer
- (1 point) Error message appropriate
- (1 point) Check for valid month range
- (1 point) Error message appropriate
- (1 point) Correct monthly fee and total
- (1 point) Output formatted to Currency or Number

### Clear Click Event

- (1 point) All textboxes cleared
- (1 point) All output labels cleared
- (1 point) Reset radio buttons and check boxes

### Exit Click Event

- (1 point) Program exits properly

### General Coding

- (1 point) Appropriate in-line comments included

## **Larger and Smaller:**

### **Form Objects**

- (1 point) All form objects referenced in code are appropriately named
- (1 point) All form objects have the correct Text on form
- (1 point) Button access keys are appropriate
- (1 point) Tab order is appropriate
- (1 point) Calculate button is form Accept(enter) button

### **Compare Click Event**

- (1 point) Variables have appropriate names, types and descriptions (comments)
- (1 point) All input values properly converted to variables
- (1 point) TryParse used to check for valid integer
- (1 point) Error message appropriate must use a Label control
- (1 point) Check for larger or equal
- (1 point) Display a message in Label control

### **Exit Click Event**

- (1 point) Program exits properly

### **General Coding**

- (1 point) Appropriate in-line comments included

## **Fat Gram Calculator:**

### **Form Objects**

- (1 point) All form objects referenced in code are appropriately named
- (1 point) All form objects have the correct Text on form
- (1 point) Button access keys are appropriate
- (1 point) Label access keys are appropriate
- (1 point) Tab order is appropriate
- (1 point) Calculate button is form Accept(enter) button
- (1 point) Clear button is form Cancel(esc) button

### **Class Level Constants**

- (1 point) Constant created where appropriate
- (1 point) Constant has appropriate name, type and value

### **Calculate Click Event**

- (1 point) Variables have appropriate names, types and descriptions (comments)
- (1 point) All input values properly converted to variables
- (1 point) TryParse used to check for valid real number(single, double or dec)
- (1 point) Error message appropriate and must use message box
- (1 point) Check fat grams and calories are greater than zero
- (1 point) Error message appropriate
- (1 point) Check number of calories from fat cannot be greater than total cal
- (1 point) Message for number of calories
- (1 point) Check for low in fat
- (1 point) Message for low in fat in message box
- (1 point) Output formatted to Percent
- (1 point) Focus set to Clear button after all processing complete

### **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

## **Running the Race:**

### **Form Objects**

- (1 point) All form objects referenced in code are appropriately named
- (1 point) All form objects have the correct Text on form
- (1 point) Button access keys are appropriate
- (1 point) Label access keys are appropriate
- (1 point) Tab order is 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) All input values properly converted to variables
- (1 point) Check for runner name equal blank
- (1 point) Error message appropriate
- (1 point) TryParse used to check for valid integer
- (1 point) Error message appropriate
- (1 point) Check finish times are greater than zero
- (1 point) Error message appropriate
- (1 point) Output formatted to Currency or Number
- (1 point) Focus set to Clear button after all processing complete

### **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