

# Programming Logic - Intermediate

## Employee Data

50 points

### Employee Data

Create an application that performs the following operations with the employee file.

Enter data:

First name (required), Middle name(optional), Last name(required), Employee Number(required and unique), Department(required from drop down list), Telephone Number(required), Telephone extension(optional), E-mail Address(optional)

Use error provider for data validation.

Save button to save to a file. If Employee number exists, display an error message using error provider.

Display single record:

Allow the user to enter the Employee number, if found display that record in output labels. If not found display an error message using error provider.

Display all records:

Next record button to read the next record and display that record in output labels.

Clear button to clear the output labels and start over at the beginning of the file.

Print a single record:

Allow the user to enter the Employee number, if found print the record. If not found display an error message using error provider.

Equip your application with a splash screen and a menu system.

Follow the programming standards discussed in class for the exercise you choose:

- Name form objects appropriately
- Label form objects appropriately
- Name and describe variables appropriately
- Align form objects appropriately
- Set the correct tab order
- Set Focus after buttons are clicked
- Use appropriate spacing to improve program readability
- Provide appropriate in-line documentation

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

## Employee Data (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

### Screen Layout

- (1 point) Splash screen design
- (1 point) Menu screen design

### Form Layout

- (1 point) Form title is appropriate
- (1 point) Textboxes used to allow user to enter data
- (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
- (1 point) Splash screen is displayed

### Form Objects

- (1 point) All form objects referenced in code are appropriately named
- (1 point) Button access keys are appropriate
- (1 point) Appropriate Accept(enter) button for each form
- (1 point) Clear button is form Cancel(esc) button
- (1 point) Menu has File and About
- (1 point) File has Enter, Display, List, Print

### Enter Data

- (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) Error provider used for required data
- (3 points) ***Employee number check for uniqueness***
- (1 point) Structure used
- (1 point) Drop down list used for departments
- (1 point) Message appropriate for duplicate employee number
- (1 point) Message appropriate for required data
- (1 point) Save button used to save data to file
- (1 point) Data saved correctly
- (1 point) Clear button clears textboxes
- (1 point) Focus set to first input field after all processing complete

**Display Single Record**

- (1 point) Check for valid employee number
- (1 point) Error provider used to check for valid employee number
- (1 point) Message appropriate for invalid employee number
- (1 point) Data moved from file to output labels
- (1 point) Clear button clears output labels and textboxes

**Display List**

- (1 point) Data moved from file to output labels
- (1 point) Next button move thru file one record at a time
- (1 point) Clear button clears the labels and starts at first record

**Print Single Record**

- (1 point) Check for valid employee number
- (1 point) Error provider used to check for valid employee number
- (1 point) Message appropriate for invalid employee number
- (1 point) Data moved from file to printer
- (1 point) Clear button clears textbox

**Exit Click Event**

- (1 point) Program exits properly

**General Coding**

- (1 point) Appropriate in-line comments included