HW 3 pseudocode:

// Update and display current date/time every second

FUNCTION updateDateTime()

GET current date/time

FORMAT date/time

DISPLAY in "currentDateTime"

END FUNCTION

CALL updateDateTime every second

// Update pain scale slider display

IF "painscale" slider and "rangedisplay" exist

DISPLAY slider value

ON slider input

UPDATE display with new value

END IF

// Initialize error flag

FUNCTION setup()

SET error\_flag = 0

END FUNCTION

// Password validation

FUNCTION checkMatch()

GET password and confirmPassword

IF confirmPassword is empty

CLEAR message

ELSE IF passwords match

DISPLAY "Passwords match!" in green

ELSE

DISPLAY "Passwords do not match!" in red

END FUNCTION

FUNCTION validatePassword()

GET password, username, and message element

IF password is empty

CLEAR message

RETURN false

ELSE IF password equals username

DISPLAY "Password cannot be username!" in red

RETURN false

ELSE IF password meets complexity requirements

DISPLAY "Strong password!" in green

RETURN true

ELSE

DISPLAY "Password must have 8+ chars, uppercase, lowercase, and number" in red

RETURN false

END FUNCTION

// Username validation

FUNCTION checkUserName()

GET username value

IF username follows format

CLEAR message

ELSE

DISPLAY "Invalid username format"

END FUNCTION

// City validation

FUNCTION checkCity()

IF city contains only valid characters

CLEAR message

ELSE

DISPLAY "Invalid city name"

SET error\_flag = 1

END FUNCTION

// Address validation

FUNCTION checkAddress(field, messageElement)

GET value of field

IF length < 2

DISPLAY "Enter at least two characters"

SET error\_flag = 1

ELSE

CLEAR message

END FUNCTION

// Name validation (first, middle, last)

FUNCTION checkName(field, messageElement)

GET value of field

IF length < 2

DISPLAY "Name too short"

SET error\_flag = 1

ELSE IF contains invalid characters

DISPLAY "Invalid characters in name"

SET error\_flag = 1

ELSE

CLEAR message

END FUNCTION

// DOB validation

FUNCTION checkDOB()

GET input value

IF empty

DISPLAY "Enter date of birth"

SET error\_flag = 1

ELSE IF date in future OR age > 130

DISPLAY "Invalid date of birth"

SET error\_flag = 1

ELSE

CLEAR message

END FUNCTION

// Show/hide password

FUNCTION showPassword()

TOGGLE password field visibility

END FUNCTION

// Collect and display form data

FUNCTION getdata1()

GET form elements

INITIALIZE output table

FOR each form element

IF element has value

DETERMINE type

IF checkbox/radio and checked

ADD to table

ELSE IF not button

ADD to table

DISPLAY table in "outputformdata"

END FUNCTION

// Setup event listeners on page load

ON page load

IF "getdata" button exists

ATTACH event listener to call getdata1