**Mark Acebedo**

**Pseudo-Code for JS Assignment 7**

**Web Programming with JavaScript (151IIW511)**

Create a form and table;

Enter first name

Enter last name

Enter Phone number

Enter quantity

Set Widget Price to $4.95.

Button onclick to run calculate function

Set a paragraph containing a black field for first/last name, phone number, quantity, discount, tax charged and total cost.

Set clear button to use onclick clear function

**// JavaScript Document**

Function validateFirst {start function

Set variable uFirst =to the value of element id userfirst

Set variable regex=/^\w{2,15}$/ to check string of alpha-numeric minimum 2 and max 15 characters

If uFirst satisfies regex {

Use element id firstprompt to “OK”;

Use element id msg to TOTAL;

Return true value;

Else {

Use element id firstprompt to “X - First name 2 to 15 characters ONLY !";

Return false value; }

}

Function validateLast() {

Set variable uLast =to the value of element id userlast

Set variable regex=/^\w{2,25}$/ to check string of alpha-numeric minimum 2 and max 25 characters

If uLast satisfies regex {

Use element id lastprompt to “OK”;

Use element id msg to TOTAL;

Return true value;

Else {

Use element id lastprompt to “X - First name 2 to 25 characters ONLY !";

Return false value; }

}

Function validatePhone() {

Set variable uPhone =to the value of element id phonenumber;

Set variable regex=/^\(\d{3}\)-\d{3}-\d{4}$/ to check string of characters “(“ 3 digits “)””-“ 3 digits “-“ 4 digit;

If uPhone satisfies regex {

Use element id phoneprompt to “OK”;

Use element id msg to TOTAL;

Return true value;

Else {

Use element id lastprompt to ="X - use (XXX)-XXX-XXXX format !";

Return false value; }

}

Function validateQuantity() {

Set variable uQuantity =to the value of element id quantity;

Set variable regex=/^\d{1,2}$/; to check string of characters minimum 1 to max 2 digits;

If uQuantity satisfies regex and uQuantity >0 and uQuantity <100{

Use element id quantityprompt to “OK”;

Use element id msg to TOTAL;

Return true value;

Else {

Use element id quantityprompt to ="X - Quantity of widgets to order is a number from 1-99";

Return false value; }

}

function calculate() {

if (validateFirst() && validateLast() && validatePhone() && validateQuantity()) {

const TAXRATE=0.085;

var widgetprice=4.95;

var firstName = document.getElementById("userfirst").value;

var lastName = document.getElementById("userlast").value;

var phoneNumber=document.getElementById("phonenumber").value;

var qty=document.getElementById("quantity").value;

var subcost=widgetprice\*qty;

var discount=parseInt(qty/10, 10)\*10;

var tax=subcost\*TAXRATE;

var costwithtax=subcost+tax;

var discountcal=costwithtax\*(discount/100);

var finalcost=costwithtax - discountcal;

function calculate() {

if (validateFirst() and validateLast() and validatePhone() and validateQuantity()) {

set constant value of TAXRATE=0.085;

set variable widgetprice=$4.95;

set variable firstName = to the element value of userfirst;

set variable lastName = to the element value of userlast;

set variable phoneNumber = to the element value phonenumber;

set variable qty = to the element value quantity;

set subcost = widget \* qty;

set tax=subcost\*TAXRATE;

set costwithtax=subcost+tax;

set discountcal=costwithtax\*(discount/100);

set finalcost=costwithtax - discountcal;

Use element id tname ="Name: " + firstName + " "+ lastName;

Use element id tphone= "Phone #: "+phoneNumber;

Use element tqty= "Quantity: "+qty;

Use element tdiscount= "Discount: " + discount+"%";

Use element tsalestax= "Sale Tax Charged (8.5%): $"+ tax.toFixed(2);

Use element ttotalcost="Total Cost: $"+finalcost.toFixed(2); } // end if then

else {

Use element msg = "Incorrect entry. Please enter the correct information";

}

}

function clear() {

Use element userfirst =empty string;

Use element userlast= empty string;

Use element phonenumber= empty string;

Use element quantity")= empty string;

}