**Exercise 01\_04\_01 – Step 2**

tuba.js

/\* global variables tracking status of each form section \*/

var acresComplete = true;

var cropsComplete = true;

var monthsComplete = true;

var fuelComplete = true;

------------------------------------

tuba.js

/\* global variables referencing fieldset elements \*/

var acresFieldset = document.getElementsByTagName("fieldset")[0];

var cropsFieldset = document.getElementsByTagName("fieldset")[1];

var monthsFieldset =   
 document.getElementsByTagName("fieldset")[2];

var fuelFieldset = document.getElementsByTagName("fieldset)[3];

------------------------------------

tuba.js

/\* global variables referencing fieldset elements \*/

var acresFieldset = document.getElementsByTagName("fieldset")[0];

var cropsFieldset = document.getElementsByTagName("fieldset")[1];

var monthsFieldset =   
 document.getElementsByTagName("fieldset")[2];

var fuelFieldset = document.getElementsByTagName("fieldset”)[3];

------------------------------------

tuba.js

/\* verify acres text box entry is a positive number \*/

function verifyAcres() {

testFormCompleteness();

}

**Exercise 01\_04\_01 – Step 3**

tuba.js

/\* generate tractor recommendation based on user selections \*/

function createRecommendation() {

if (acresBox.value >= 5000) { // 5000 acres or less, no crop test needed

alert("After first if clause: " + acresBox.value);

if (monthsBox.value <= 10) { // 10+ months of farming per year

messageHeadElement.innerHTML = "E3250";

messageElement.innerHTML = "A workhorse for a small farm or a big backyard. A medium- to heavy-duty tractor that can haul whatever you throw at it year-round.";

} else { // 9 or fewer months per year

messageHeadElement.innerHTML = "E2600";

messageElement.innerHTML = "Perfect for a small farm, or just a big backyard. A light- to medium-duty tractor that can make short work of most any chore.";

}

} else { // more than 5000 acres

alert("After second clause: " + acresBox.value);

------------------------------------

tuba.js

/\* generate tractor recommendation based on user selections \*/

function createRecommendation() {

if (acresBox.value <= 5000) { // 5000 acres or less, no crop test needed

**Exercise 01\_04\_01 – Step 4**

tuba.js

/\* generate tractor recommendation based on user selections \*/

function createRecommendation() {

if (acresBox.value <= 5000) { // 5000 acres or less, no crop test needed

if (monthsBox.value <= 10) { // 10+ months of farming per year

console.log("After second if clause: " + monthsBox.value);

messageHeadElement.innerHTML = "E3250";

messageElement.innerHTML = "A workhorse for a small farm or a big backyard. A medium- to heavy-duty tractor that can haul whatever you throw at it year-round.";

} else { // 9 or fewer months per year

console.log("After else clause: " + monthsBox.value);

messageHeadElement.innerHTML = "E2600";

messageElement.innerHTML = "Perfect for a small farm, or just a big backyard. A light- to medium-duty tractor that can make short work of most any chore.";

}

------------------------------------

tuba.js

/\* generate tractor recommendation based on user selections \*/

function createRecommendation() {

if (acresBox.value <= 5000) { // 5000 acres or less, no crop test needed

if (monthsBox.value >= 10) { // 10+ months of farming per year

messageHeadElement.innerHTML = "E3250";

messageElement.innerHTML = "A workhorse for a small farm or a big backyard. A medium- to heavy-duty tractor that can haul whatever you throw at it year-round.";

} else { // 9 or fewer months per year

messageHeadElement.innerHTML = "E2600";

messageElement.innerHTML = "Perfect for a small farm, or just a big backyard. A light- to medium-duty tractor that can make short work of most any chore.";

}

**Exercise 01\_04\_01 – Step 5**

tuba.js

if (document.getElementById("wheat").checked /\* || document.getElementById("corn").checked && document.getElementById("soy").checked \*/) {

------------------------------------

tuba.js

if (document.getElementById("wheat").checked || document.getElementById("corn").checked /\* && document.getElementById("soy").checked \*/) {

------------------------------------

tuba.js

if (document.getElementById("wheat").checked || document.getElementById("corn").checked || document.getElementById("soy").checked) {

**Exercise 01\_04\_01 – Step 8**

tuba.js

if (document.getElementById("E85").checked) { // add suffix to model name based on fuel choice

messageHeadElement.innerHTML += "E";

} else if (document.getElementById("biodiesel").checked) {

messageHeadElement.innerHTML += "B";

} else {

messageHeadElement.innerHTML += "D";

}

**Exercise 01\_04\_01 – Step 10**

tuba.js

/\* verify acres text box entry is a positive number \*/

function verifyAcres() {

var validity = true;

var messageText = "";

}

------------------------------------

tuba.js

/\* verify acres text box entry is a positive number \*/

function verifyAcres() {

var validity = true;

var messageText = "";

try {

if (!(acresBox.value > 0)) {

throw "Please enter a number of acres greater than 0.";

}

}

}

------------------------------------

tuba.js

/\* verify acres text box entry is a positive number \*/

function verifyAcres() {

var validity = true;

var messageText = "";

try {

if (!(acresBox.value > 0)) {

throw "Please enter a number of acres greater than 0.";

}

}

catch(message) {

validity = false;

messageText = message;

// remove erroneous entry from input box

acresBox.value = "";

}

}

tuba.js

/\* verify acres text box entry is a positive number \*/

function verifyAcres() {

var validity = true;

var messageText = "";

try {

if (!(acresBox.value > 0)) {

throw "Please enter a number of acres greater than 0.";

}

}

catch(message) {

validity = false;

messageText = message;

// remove erroneous entry from input box

acresBox.value = "";

}

finally {

acresComplete = validity;

// remove former recommendation

messageElement.innerHTML = messageText;

messageHeadElement.innerHTML = "";

testFormCompleteness();

}

}

tuba.js

/\* verify months text box entry is between 1 and 12 \*/

function verifyMonths() {

var validity = true;

var messageText = "";

try {

if (!(monthsBox.value >= 1 && monthsBox.value <= 12)) {

throw "Please enter a number of months between 1 and 12.";

}

}

catch(message) {

validity = false;

messageText = message;

// remove erroneous entry from input box

monthsBox.value = "";

}

finally {

monthsComplete = validity;

// remove former recommendation

messageElement.innerHTML = messageText;

messageHeadElement.innerHTML = "";

testFormCompleteness();

}

}

**Project 01\_04\_01**

tuba.js

function verifyCrops() {

try {

for (var i = 0; i < 7; i++) {

if (cropsFieldset.getElementsByTagName("input")[i].  
 checked) {

cropscomplete = true;

messageElement.innerHTML = "";

testFormCompleteness();

i = 8;

}

}

if (i === 7) {

throw "Please select at least one crop.";

}

}

}------------------------------------

tuba.js

catch(message) {

cropsComplete = false;

messageHeadElement.innerHTML = "";

messageElement.innerHTML = message;

}

------------------------------------

tuba.js

var acresComplete = false;

var cropsComplete = false;

var monthsComplete = false;

var fuelComplete = true;