Question 1

HTML

```html
<!-- Assignment 2 - Question 1 -->
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Assignment 2 - Question 1</title>
    <link rel="stylesheet" type="text/css" href="q1.css">
    <link rel="stylesheet" type="text/css" href="https://maxcdn.bootstrapcdn.com/
font-awesome/4.4.0/css/font-awesome.min.css">

    <script src="http://code.jquery.com/jquery-3.1.0.min.js"></script>
</head>
<body>
    <main>
        <div class="form-box">
            <h1>Registration</h1>
            <hr>

            <form method="get" action="#" name="Formq1" id="Formq1" onsubmit="ret
urn checkForEmptyFields()">
                <label class="icon" for="name"><i class="fa fa-user fa-
fw"></i></label>
                <input type="text" name="name" id="name" placeholder="Name" />

                <label class="icon" for="phone"><i class="fa fa-phone fa-
fw"></i></label>
                <input type="text" name="phone" id="phone" placeholder="Phone"/>

                <label class="icon" for="email"><i class="fa fa-envelope fa-
fw"></i></label>
                <input type="text" name="email" id="email" placeholder="Email" />

                <label class="icon" for="pass"><i class="fa fa-key fa-
fw"></i></label>
                <input type="password" name="pass" id="pass" placeholder="Password"
 />

                <div class="submitWrapper">
                  <button type="submit" id="submitButton">
```

```html
                <i class="fa fa-reply fa-fw"></i> Register</button>
            </div>
        </form>
    </div>

    <div id="errors" class="hidden">
        <p id="errmessage"></p>
    </div>

</main>


    <script type="text/javascript" language="javascript" src="q1.js"></script>
</body>
</html>
```

CSS

```css
body {
    margin: 0;
    padding: 0;
    background-color: #333;
    font-family: 'Arial Narrow', Candara, sans-serif;
    font-size: 16px;
    color: #4c4c4c;
}

.form-box {
 margin: 2em auto;
 width: 22em;
 height: auto;
 border-radius: 0.5em;
 background-color: #ebebeb;
 box-shadow: 1px 2px 5px rgba(0,0,0,.31);
 border: solid 1px #cbc9c9;
}

.hidden{
    margin: 2em auto;
    width: 22em;
    height: auto;
    border-radius: 0.5em;
    background-color: #ebebeb;
    box-shadow: 1px 2px 5px rgba(0,0,0,.31);
    border: solid 1px #cbc9c9;
```

```css
        display: none;
}

.hidden p{
    color: #4c4c4c;
    margin: 1em;
    font-weight: 200;
}

.form-box form {
 margin: 0 2em;
}

.form-box h1 {
 font-size: 2rem;
 font-weight: 500;
 color: #4c4c4c;
 text-align: center;
 margin: 0.75em;
}


.form-box hr {
 color: #a9a9a9;
 opacity: 0.3;
 width: 80%;
}

input {
 width: 15em;
 height: 2.75em;
 border-radius: 0px 4px 4px 0px/5px 5px 4px 4px;
 background-color: #fff;
 box-shadow: 1px 2px 5px rgba(0,0,0,.09);
 border: solid 1px #cbc9c9;
 margin-left: -5px;
 margin-top: 13px;
 padding-left: 10px;
}


label {
 display: inline-block;
 width: 2em;
 background-color: #FF6C3A;
```

```css
  padding: 8px 0px 8px 15px;
  margin-left: 15px;
  border-radius: 4px 0px 0px 4px;
  color: white;
  box-shadow: 1px 2px 5px rgba(0,0,0,.09);
  border: solid 0px #cbc9c9;
}

.form-box button {
  text-decoration: none;
  display: inline-block;
  font-size: 1rem;
  font-weight: bold;
  color: white;
  margin: 1em;
  height: 2.5em;
  width: 10em;
  border-radius: 5px;
  background-color: #3b9ad8;
  box-shadow: 3px 3px rgba(58,87,175,.75);
  margin-top: 2em;
  margin-bottom: 2em;
}

table input[type="submit"] {
    display: block;
    margin: 0 auto;
}

div.submitWrapper  {
    text-align: center;
}

/* styles for event listener example */

.panel { width: 200px; height: 200px; background-color: #CFD8DC; font-
weight: bold; font-size: 20px;
   display: flex; align-items: center; justify-content: center; }
span#message { font-size: 20px; }
```
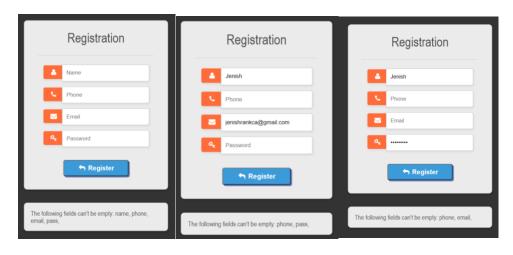
JS

```javascript
function checkForEmptyFields(){
  //create array and var
  var name = document.forms["Formq1"]["name"];
```

```javascript
    var phone = document.forms["Formq1"]["phone"];
    var email = document.forms["Formq1"]["email"];
    var pass = document.forms["Formq1"]["pass"];

    var fields = new Array;
    var fields = [name, phone, email, pass];
    var message = "";
    var status = false;

    //loop
    for (i=0;i<fields.length;i++){
        if(fields[i].value == "" || fields[i].value == null) {
            message += fields[i].name + ", ";
            finalerr = "The following fields can't be empty: " + message;
        }
    }
    //use if else to check if there is any error and submit
    if (message == ""){
        document.forms.submit();
        status = true;
    }
    else{
        //alert(finalerr);
        document.getElementById("errors").style.display = "block";
        document.getElementById("errmessage").innerHTML = finalerr;
        status = false;
    }
    return status;
};
```

RESULT

Question 2

HTML

```html
<!-- Assignment 2 - Question 2 -->
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Assignment 2 - Question 2</title>
    <link rel="stylesheet" type="text/css" href="q2.css">

    <script src="http://code.jquery.com/jquery-3.1.0.min.js"></script>
    <script type="text/javascript" language="javascript" src="q2.js"></script>
</head>
<body>
    <figure>
        <img src="img/1-small.jpg" alt="Battle, UK"  >
    </figure>
    <figure>
        <img src="img/2-small.jpg" alt="Lunenburg, CA">
    </figure>
    <figure>
        <img src="img/3-small.jpg" alt="Athens, GR" >
    </figure>
    <figure>
        <img src="img/4-small.jpg" alt="Florence, IT">
    </figure>
</body>
</html>
```

CSS

```css
#preview {
    position: absolute;
    padding: 15px 15px 0 15px;
    display: none;
    background-color: #424242;
}

#preview p {
    color: white;
    margin-top: 3px;
    margin-bottom: 3px;
```

```css
        font-size: 1.5em;
    text-align: center;
}

.gray {
     filter: grayscale(100%);
    -webkit-filter: grayscale(100%);
}

.normal {
    filter: none;
}
```

JS

```javascript
function removePreview(e) {
    // remove preview div and gray class
    $("figure img").attr("class", "normal");
    $("#preview").remove();
};

function movePreview(e) {
    // preview based on mouse coordinates
    $("#preview").offset({
        left: e.pageX,
        top: e.pageY + 20

    });
};

$(document).ready(function() {

    $('figure img').on('mouseover', function(e) {

        // var and change image from small to large
        var alt = $(this).attr('alt');
        var src = $(this).attr('src');
        var updatesrc = src.replace("small", "large");

        // make div preview and add it to html
        var preview = $('<div id="preview"></div>');
        var image = $('<img src="' + updatesrc + '">');
        var figcaption = $('<p>' + alt + '</p>');
        preview.append(image);
        preview.append(figcaption);
```

```
        $('body').append(preview);

        // turn image gray
        $(this).attr("class", "gray");
        // fade preview in
        $("#preview").fadeIn(1000);
    });

    $('figure img').on('mouseleave', function(e) {
        removePreview(e);
    });

    $('figure img').on('mousemove', function(e) {
        movePreview(e);
    });
});
```

RESULT

GitHub repo: https://github.com/jrank1/IC215-Assignment-2