Exercise (Instructions): Grunt Part 2

Objectives and Outcomes

In this exercise, you will continue to learn to use Grunt, the task runner. You will configure the Grunt file with a set of additional tasks to build your web project. At the end of this exercise, you will be able to:

- Configure a Grunt file with a set of tasks to build your web project from a source.

Copying the Files and Cleaning Up the Dist Folder

- Next you will install the Grunt modules to copy over files to a distribution folder named dist, and clean up the dist folder when needed. To do this, install the following Grunt modules:

```
1   npm install grunt-contrib-copy@1.0.0 --save-dev
2   npm install grunt-contrib-clean@1.1.0 --save-dev
```

```
17 ▾                {
18                      //for font-awesome
19                      expand: true,
20                      dot: true,
21                      cwd: 'node_modules/font-awesome',
22                      src: ['fonts/*.*'],
23                      dest: 'dist'
24                  }]
25              }
26          },
27
28 ▾      clean: {
29 ▾          build: {
30                  src: [ 'dist/']
31              }
32          }
```

- Remember to add the comma after the end of the SASS task.

```
 9                      }]
10              }
11          }
```

Preparing the Distribution Folder and Files

- We are now going to use the Grunt *usemin* module together with *concat*, *cssmin*, *uglify* and *filerev* to prepare the distribution folder. To do this, install the following Grunt modules:

```
1   npm install grunt-contrib-concat@1.0.1 --save-dev
2   npm install grunt-contrib-cssmin@2.2.1 --save-dev
3   npm install grunt-contrib-htmlmin@2.4.0 --save-dev
4   npm install grunt-contrib-uglify@3.3.0 --save-dev
5   npm install grunt-filerev@2.3.1 --save-dev
6   npm install grunt-usemin@3.1.1 --save-dev
```

- Next, update the task configuration within the Gruntfile.js with the following additional code to introduce the new tasks:

```
21                          };
22                      }
23                  }]
24              }
25          }
26      }
```

```
27          },
28
29          // Concat
30 ▾        concat: {
31 ▾            options: {
32                  separator: ';'
33              },
34
35              // dist configuration is provided by useminPrepare
36              dist: {}
37          },
38
39          // Uglify
40 ▾        uglify: {
41              // dist configuration is provided by useminPrepare
42              dist: {}
43          },
⌐⌐
66          }
67          },
68
69          // Usemin
70          // Replaces all assets with their revved version in html and css files.
71          // options.assetDirs contains the directories for finding the assets
72          // according to their relative paths
73 ▾        usemin: {
74              html: ['dist/contactus.html','dist/aboutus.html','dist/index.html'],
75 ▾            options: {
76                  assetsDirs: ['dist', 'dist/css','dist/js']
77              }
78          },
79
80 ▾        htmlmin: {                                      // Task
81 ▾            dist: {                                     // Target
82 ▾                options: {                              // Target options
83                      collapseWhitespace: true
84                  },
85 ▾                files: {                                // Dictionary of
                       files
86                       'dist/index.html': 'dist/index.html',  // 'destination':
                   clean ,
 3           'copy',
 4           'imagemin',
 5           'useminPrepare',
 6           'concat',
 7           'cssmin',
 8           'uglify',
 9           'filerev',
10           'usemin',
11           'htmlmin'
12      ]);
```

- Now if you run Grunt, it will create a dist folder with the files structured correctly to be distributed to a server to host your website. To do this, type the following at the prompt:

```
1  grunt build
```