

# Exercise (Instructions): Gulp Part 2

## Objectives and Outcomes

In this exercise, you will continue to learn to use Gulp. Thereafter you will configure a Gulp file with a set of tasks to build and serve your web project. At the end of this exercise, you will be able to:

- Configure the Gulp file with a set of tasks to build the distribution folder for the web project.

## Copying the Files and Cleaning up the Dist Folder

- We will now create the tasks for copying the font files and cleaning up the distribution folder. To do this we will first install the *del* Node module and require it in the Gulp file as follows:

```
1 npm install del@3.0.0 --save-dev
```

```
1 var ...
2 del = require('del'),
3 ...
```

- Next, we will add the code for the Clean task and the copyfonts task as follows:

```
1 npm install gulp-imagemin@4.1.0 --save-dev
```

```
1 var ...
2 imagemin = require('gulp-imagemin'),
3 ...
```

- Next, we create the *imagemin* task as follows:

```
1 // Images
2 gulp.task('imagemin', function() {
3   return gulp.src('img/*.{png,jpg,gif}')
4     .pipe(imagemin({ optimizationLevel: 3, progressive: true, interlaced: true }))
5     .pipe(gulp.dest('dist/img'));
6 });
```

## Preparing the Distribution Folder and Files

- We now install the *gulp-usemin* and other related Gulp plugins and require them as follows:

```
1 gulp.task('usemin', function() {
2   return gulp.src('/*.html')
3     .pipe(function(stream, file){
4       return stream
5         .pipe(usemin({
6           css: [ rev() ],
7           html: [ function() { return htmlmin({ collapseWhitespace: true }) } ],
8           js: [ uglify(), rev() ],
9           inlinejs: [ uglify() ],
10          inlinecss: [ cleanCSS(), 'concat' ]
11        })
12     });
```

- Save the Gulp file

## Running the Gulp Tasks

- At the command prompt, if you type *gulp build* it will run the build task:

```
1 gulp build
```

- Do a Git commit with the message "Gulp Part 2"

## Conclusions

In this exercise, you learnt to use Gulp, install Gulp plugins, configure the `gulpfile.js` and then use Gulp to automate the web development tasks.