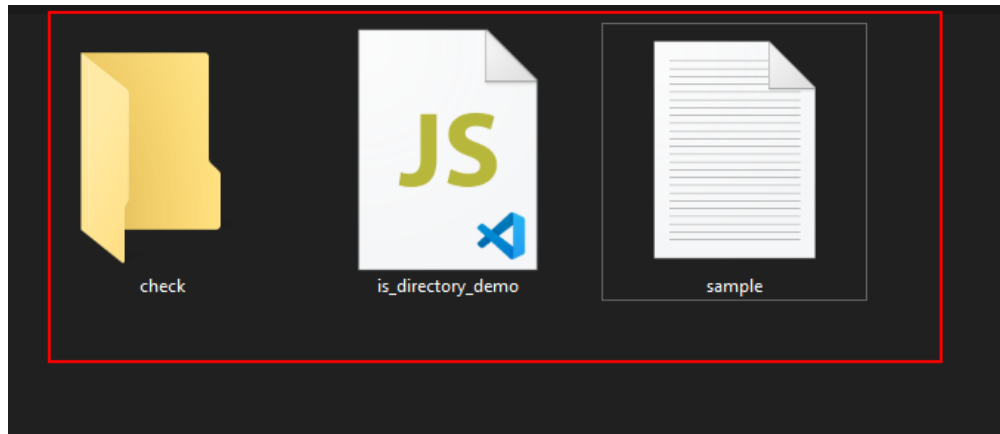# NodeJS Module 3: Hands-On:4
Checking If a Given Path Is a File or a Directory

Step 1: Create a file named **is_directory_demo.js** and another named **sample.txt** and a folder named **check** in the same folder

Step 2: Open is_directory_demo.js in any text editor

Step 3: Type the following code:

```
const fs = require('fs');

fs.stat('check', (error, stats) => {
    if (error) {
        console.log(error);
        return;
    }
    if (stats.isDirectory()) {
        console.log("Given path is a directory")
    } else if (stats.isFile()) {
        console.log("Given path is a file")
    }
});

fs.stat('sample.txt', (error, stats) => {
    if (error) {
        console.log(error);
        return;
    }
    if (stats.isDirectory()) {
        console.log("Given path is a directory")
    } else if (stats.isFile()) {
        console.log("Given path is a file")
    }
});
```

Step 3.1: Import the 'fs' module using the require keyword

```js
const fs = require('fs');

fs.stat('check', (error, stats) => {
    if (error) {
        console.log(error);
        return;
    }
    if (stats.isDirectory()) {
        console.log("Given path is a directory")
    } else if (stats.isFile()) {
        console.log("Given path is a file")
    }
});

fs.stat('sample.txt', (error, stats) => {
    if (error) {
        console.log(error);
        return;
    }
    if (stats.isDirectory()) {
        console.log("Given path is a directory")
    } else if (stats.isFile()) {
        console.log("Given path is a file")
    }
});
```

Step 3.2: Call the stat method on the fs module and pass in the name path of the folder you created and a callback

```js
const fs = require('fs');

fs.stat('check', (error, stats) => {
    if (error) {
        console.log(error);
        return;
    }
    if (stats.isDirectory()) {
        console.log("Given path is a directory")
    } else if (stats.isFile()) {
        console.log("Given path is a file")
    }
});

fs.stat('sample.txt', (error, stats) => {
    if (error) {
        console.log(error);
        return;
    }
    if (stats.isDirectory()) {
        console.log("Given path is a directory")
    } else if (stats.isFile()) {
        console.log("Given path is a file")
    }
});
```

Step 3.3: The callback will log the error to the console if any, and if there is no error then it will log whether the given path is of a file or a directory

```javascript
const fs = require('fs');

fs.stat('check', (error, stats) => {
    if (error) {
        console.log(error);
        return;
    }
    if (stats.isDirectory()) {
        console.log("Given path is a directory")
    } else if (stats.isFile()) {
        console.log("Given path is a file")
    }
});

fs.stat('sample.txt', (error, stats) => {
    if (error) {
        console.log(error);
        return;
    }
    if (stats.isDirectory()) {
        console.log("Given path is a directory")
    } else if (stats.isFile()) {
        console.log("Given path is a file")
    }
});
```

Step 3.4: Call the stat method again on the fs module and pass in the name path of the file you created and a callback

```js
const fs = require('fs');

fs.stat('check', (error, stats) => {
    if (error) {
        console.log(error);
        return;
    }
    if (stats.isDirectory()) {
        console.log("Given path is a directory")
    } else if (stats.isFile()) {
        console.log("Given path is a file")
    }
});

fs.stat('sample.txt', (error, stats) => {
    if (error) {
        console.log(error);
        return;
    }
    if (stats.isDirectory()) {
        console.log("Given path is a directory")
    } else if (stats.isFile()) {
        console.log("Given path is a file")
    }
});
```

Step 3.5: The callback will log the error to the console if any, and if there is no error then it will log whether the given path is of a file or a directory

```js
const fs = require('fs');

fs.stat('check', (error, stats) => {
    if (error) {
        console.log(error);
        return;
    }
    if (stats.isDirectory()) {
        console.log("Given path is a directory")
    } else if (stats.isFile()) {
        console.log("Given path is a file")
    }
});

fs.stat('sample.txt', (error, stats) => {
    if (error) {
        console.log(error);
        return;
    }
    if (stats.isDirectory()) {
        console.log("Given path is a directory")
    } else if (stats.isFile()) {
        console.log("Given path is a file")
    }
});
```

Step 4: Open the command prompt in the same directory as the file

```
C:\Windows\System32\cmd.exe

Microsoft Windows [Version 10.0.18362.476]
(c) 2019 Microsoft Corporation. All rights reserved.

C:\Users\Intellipaat-Team\Desktop\fs\demo>
```

Step 5: Run the file using the command 'node is_directory_demo.js'