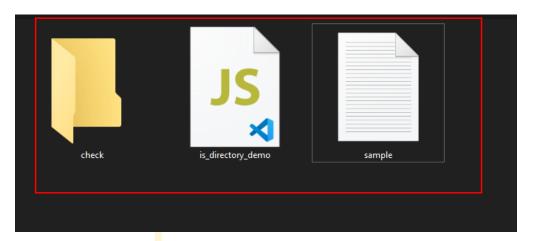


NodeJS Module 3: Hands-On:4

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:

```
IS is_directory_demo.js ×
C: > Users > Intellipaat-Team > Desktop > fs > demo > JS is_directory_demo.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")
           3
       3);
       fs.stat('sample.txt', (error, stats) => {
           if (error) {
                console.log(error);
                return;
           if (stats.isDirectory()) {
                console.log("Given path is a directory")
  21
            } else if (stats.isFile()) {
  22
                console.log("Given path is a file")
  24
            }
  25
       3);
```



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

```
JS is_directory_demo.js ×
      const fs = require('fs');
      fs.stat('check', (error, stats) => {
        if (error) {
             console.log(error);
        return;
       if (stats.isDirectory()) {
   8
             console.log("Given path is a directory")
        ---} else if (stats.isFile()) {
  10
             console.log("Given path is a file")
  11
  12
         - }
  13
      3);
  14
       fs.stat('sample.txt<mark>'</mark>, (error, stats) => {
  15
  16
         - if (error) {
  17
              console.log(error);
  18
              return;
          - }
        if (stats.isDirectory()) {
  20
             console.log("Given path is a directory")
  21
       } else if (stats.isFile()) {
  22
             console.log("Given path is a file")
  23
  24
          3
  25
       3);
```



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 is_directory_demo.js ×
C: > Users > Intellipaat-Team > Desktop > fs > demo > JS is_directory_demo.js > ...
       const fs = require('fs');
       fs.stat('check', (error, stats) => {
            if (error) {
                console.log(error);
   6
                return;
           }
           if (stats.isDirectory()) {
                console.log("Given path is a directory")
            } else if (stats.isFile()) {
  10
                console.log("Given path is a file")
  11
  12
           - }
  13
       3);
  14
       fs.stat('sample.txt<mark>'</mark>, (error, stats) => {
  15
          · if (error) {
  16
                console.log(error);
  17
  18
                return;
  19
           if (stats.isDirectory()) {
  20
  21
                console.log("Given path is a directory")
            } else if (stats.isFile()) {
  22
                console.log("Given path is a file")
  23
  24
           - }
       3);
  25
```



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

```
JS is_directory_demo.js ×
       const fs = require('fs');
   2
       fs.stat('check', (error, stats) => {
   3
           if (error) {
               console.log(error);
               return;
   6
           if (stats.isDirectory()) {
               console.log("Given path is a directory")
           } else if (stats.isFile()) {
  10
               console.log("Given path is a file")
  11
  12
           }
  13
       });
  14
       fs.stat('sample.txt', (error, stats) => {
  15
           if (error) {
  16
               console.log(error);
  17
  18
               return;
  19
           if (stats.isDirectory()) {
  20
  21
               console.log("Given path is a directory")
           } else if (stats.isFile()) {
  22
               console.log("Given path is a file")
  23
  24
           3
       3);
  25
```



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 is_directory_demo.js ×
       const fs = require('fs');
   2
       fs.stat('check', (error, stats) => {
           if (error) {
   4
               console.log(error);
   6
               return;
           }
          if (stats.isDirectory()) {
               console.log("Given path is a directory")
           } else if (stats.isFile()) {
  10
               console.log("Given path is a file")
  11
  12
           - }
  13
       3);
  14
      fs.stat('sample.txt', (error, stats) => {
  15
           if (error) {
  16
               console.log(error);
  17
  18
               return;
  19
           if (stats.isDirectory()) {
  20
  21
               console.log("Given path is a directory")
           } else if (stats.isFile()) {
  22
               console.log("Given path is a file")
  23
  24
           3
       });
  25
```



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 is_directory_demo.js ×
       const fs = require('fs');
   2
       fs.stat('check', (error, stats) => {
           if (error) {
   4
               console.log(error);
               return;
   6
           -}
          if (stats.isDirectory()) {
   8
   9
               console.log("Given path is a directory")
           } else if (stats.isFile()) {
  10
               console.log("Given path is a file")
  11
  12
           3
  13
       3);
  14
       fs.stat('sample.txt', (error, stats) => {
  15
           if (error) {
  16
               console.log(error);
  17
  18
               return;
  19
           if (stats.isDirectory()) {
  20
               console.log("Given path is a directory")
  21
           } else if (stats.isFile()) {
  22
               console.log("Given path is a file")
  23
           3
  24
  25
```

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

```
G:\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'

```
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>node is_directory_demo.js

Given path is a directory

Given path is a file

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

