Department of Computer Science and Engineering

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UCS1601 - Internet Programming

Assignment 9: File operations with Node.js

Objective:

Write a Node.js program to do file operations open, read, truncate, read and close.

Code:

Javascript:

```javascript
var buf = new Buffer.alloc(1024);
var fs = require('fs');

fs.open("file.txt", "r+", function(err, fd){
    //Open file
```

```
6      if(err){
7          console.log(err);
8          console.log("Error opening file");
9      }
10
11     //Read file
12     fs.read(fd, buf, 0, buf.length, 0, function(err, bytes){
13         if (err){
14             console.log(err);
15             console.log("Error reading file");
16         }
17         console.log
    ("-----------------------------------------------------------------
    ;
18         console.log("Contents of file before truncate:");
19         console.log(buf.slice(0, bytes).toString());
20
21         //Truncate file
22         fs.truncate("file.txt", 50, function(err, bytes){
23             if (err){
24                 console.log(err);
25                 console.log("Error truncating file");
26             }
27             console.log
    ("-----------------------------------------------------------------
    ;
28             console.log("Contents of file after truncate:");
29             fs.read(fd, buf, 0, buf.length, 0, function(err,
    bytes){
30                 if (err) {
31                     console.log(err);
32                     console.log("Error reading file");
33                 }
34
35                 //Print only read bytes to avoid junk.
36                 if(bytes > 0) {
37                     console.log(buf.slice(0, bytes).toString
    ());
38                 }
39
40                 //Close file.
41                 fs.close(fd, function(err) {
42                     if (err) {
43                         console.log(err);
44                         console.log("Error closing file");
```

```
45                              }
46                          });
47                      });
48                  });
49
50      });
51 });
```

Output:

```
→ node fileio.js
------------------------------------------------------------------------
Contents of file before truncate:
Lorem ipsum dolor sit amet, consectetur adipiscing elit. Fusce a lobortis justo. Nullam vel rhoncus lectus,
et finibus ex. Vivamus sodales sollicitudin maximus. Pellentesque sit amet turpis et purus sollicitudin tempor.
Etiam et sem aliquet lectus porta accumsan non sit amet turpis. Sed egestas est vel fringilla elementum. Aenean ut nulla
eu arcu hendrerit suscipit. Sed ullamcorper ipsum vitae metus efficitur porta. Suspendisse potenti. Cras molestie dictum dolor,
vel ullamcorper mi venenatis at. In hac habitasse platea dictumst. Cras pulvinar malesuada tortor eu commodo. Quisque at rhoncus
urna. Aliquam vel bibendum ipsum.
------------------------------------------------------------------------
Contents of file after truncate:
Lorem ipsum dolor sit amet, consectetur adipiscing
```