UCS1611---Internet Programming Lab

ASSIGNMENT-8

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LEARNING OBJECTIVES:

Write a Node.js program to do the following: a. Open a file.

b. Read the file.

c. Truncate the file.

d. Read the file.

e. Close the file.

After each read operation print the contents of the file to the console.

ASNMT8.JS:

```javascript
var fs = require("fs");
var buf = new Buffer.alloc(1024);
console.log("\nASSIGNMENT - 7\n");
//Open a existing file
fs.open("input.txt", "r+", function (err, fd) {
  if (err) {
    return console.error(err);
  }
  console.log("1. File opened successfully.\n");
  //console.log("Going to truncate the file after 10 bytes
");

  fs.read(fd, buf, 0, buf.length, 0, function (err, bytes)
{
    if (err) {
      console.log(err);
    }

    // Print only read bytes to avoid junk.
    if (bytes > 0) {
      console.log("2. File read successfully.\n");
      console.log(buf.slice(0, bytes).toString());
    }
```

```javascript
      // Truncate the opened file.
      fs.ftruncate(fd, 20, function (err) {
        if (err) {
          console.log(err);
        }
        console.log("3. File truncated successfully.\n");

        fs.read(fd, buf, 0, buf.length, 0, function (err, bytes) {
          if (err) {
            console.log(err);
          }

          // Print only read bytes to avoid junk.
          if (bytes > 0) {
            console.log("4. File again read after truncate successfully.\n");
            console.log(buf.slice(0, bytes).toString());
          }

          // Close the opened file.
          fs.close(fd, function (err) {
            if (err) {
              console.log(err);
            }
            console.log("5. File closed successfully.\n");
          });
        });
      });
    });
  });
});
```

INPUT.TXT:

BEFORE TRUNCATION:

Node.js is an open source server environment

Node.js is free

Node.js runs on various platforms (Windows, Linux, Unix, Mac OS X, etc.)

Node.js uses JavaScript on the server

__AFTER TRUNCATION:__

Node.js is an open s

__OUTPUT SCREENSHOT:__

```
F:\lab\IP\Node>node asnmt8.js

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1. File opened successfully.

2. File read successfully.

Node.js is an open source server environment
Node.js is free
Node.js runs on various platforms (Windows, Linux, Unix, Mac OS X, etc.)
Node.js uses JavaScript on the server

3. File truncated successfully.

4. File again read after truncate successfully.

Node.js is an open s
5. File closed successfully.
```