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### Lab Exercise 1 Screenshots:

Output:

```
> Lab01_101289239_COMP3133@1.0.0 start C:\Users\domin\Desktop\Lab01_101289239_COMP3133
> node index.js

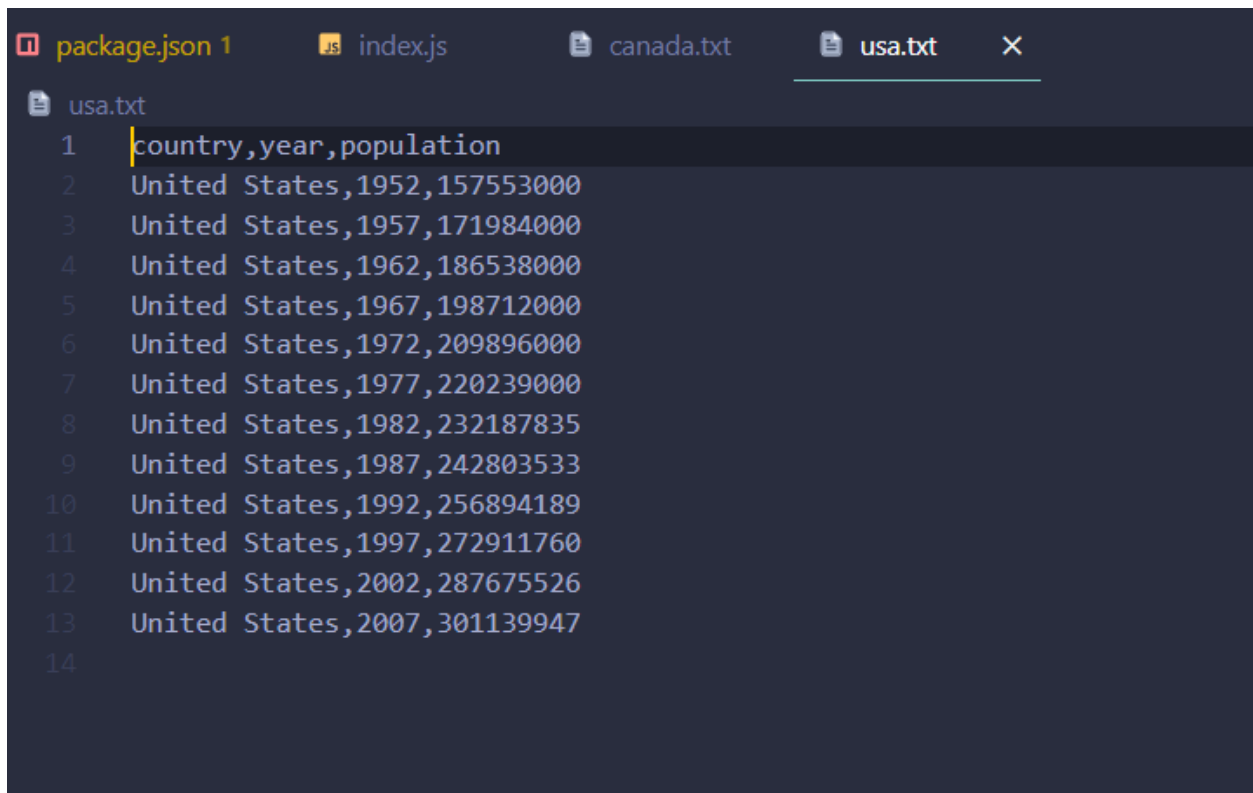
canada.txt deleted successfully
usa.txt deleted successfully
CSV File finished
PS C:\Users\domin\Desktop\Lab01_101289239_COMP3133>
```

canada.txt:

A screenshot of a code editor with three tabs: 'package.json 1', 'index.js', and 'canada.txt X'. The 'canada.txt' tab is active and shows a CSV file with 13 lines of data. The first line is a header: 'country,year,population'. The subsequent lines contain data for Canada from 1952 to 2007. The cursor is positioned at the start of the first line.

country	year	population
Canada	1952	14785584
Canada	1957	17010154
Canada	1962	18985849
Canada	1967	20819767
Canada	1972	22284500
Canada	1977	23796400
Canada	1982	25201900
Canada	1987	26549700
Canada	1992	28523502
Canada	1997	30305843
Canada	2002	31902268
Canada	2007	33390141

usa.txt:



The image shows a code editor interface with a dark theme. At the top, there are four tabs: 'package.json 1', 'index.js', 'canada.txt', and 'usa.txt'. The 'usa.txt' tab is active and highlighted. Below the tabs, the file 'usa.txt' is open, showing a table of data. The table has three columns: 'country', 'year', and 'population'. The data rows show the United States population from 1952 to 2007. The first row is the header, and the subsequent rows are data points. The cursor is positioned at the end of the first row.

country	year	population
United States	1952	157553000
United States	1957	171984000
United States	1962	186538000
United States	1967	198712000
United States	1972	209896000
United States	1977	220239000
United States	1982	232187835
United States	1987	242803533
United States	1992	256894189
United States	1997	272911760
United States	2002	287675526
United States	2007	301139947

code:

```
index.js > fs.unlink('usa.txt', callback)
1   var csv = require('csv-parser');
2   var fs = require('fs');
3
4   // Deleteing Text Files
5   try {
6     fs.unlink('canada.txt', (err) => {
7       if (err) {
8         console.log(err);
9         return;
10      }
11      console.log('canada.txt deleted successfully');
12    });
13  } catch (err) {
14    console.log('canada.txt not found');
15  }
16
17  try {
18    fs.unlink('usa.txt', (err) => {
19      if (err) {
20        console.log(err);
21        return;
22      }
23      console.log('usa.txt deleted successfully');
24    });
25  } catch (err) {
26    console.log('usa.txt not found');
27  }
28
```

```
28
29 // Adding header to text files
30 var header = 'country,year,population';
31 fs.writeFileSync('canada.txt', header + '\n');
32 fs.writeFileSync('usa.txt', header + '\n');
33 fs
34   .createReadStream('input_countries.csv')
35   .pipe(csv())
36   .on('data', (row) => {
37     // Filter data of Canada and write to text file
38     if (row.country === 'Canada') {
39       fs.appendFileSync('canada.txt', Object.values(row).join(',') + '\n');
40     }
41     // Filter data of USA and write to text file
42     if (row.country === 'United States') {
43       fs.appendFileSync('usa.txt', Object.values(row).join(',') + '\n');
44     }
45   })
46   .on('end', () => {
47     console.log('CSV File finished');
48   });
49
```