Name: Dominic Gopalakrishnan

ID: 101289239

CRN: 49746

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>
```
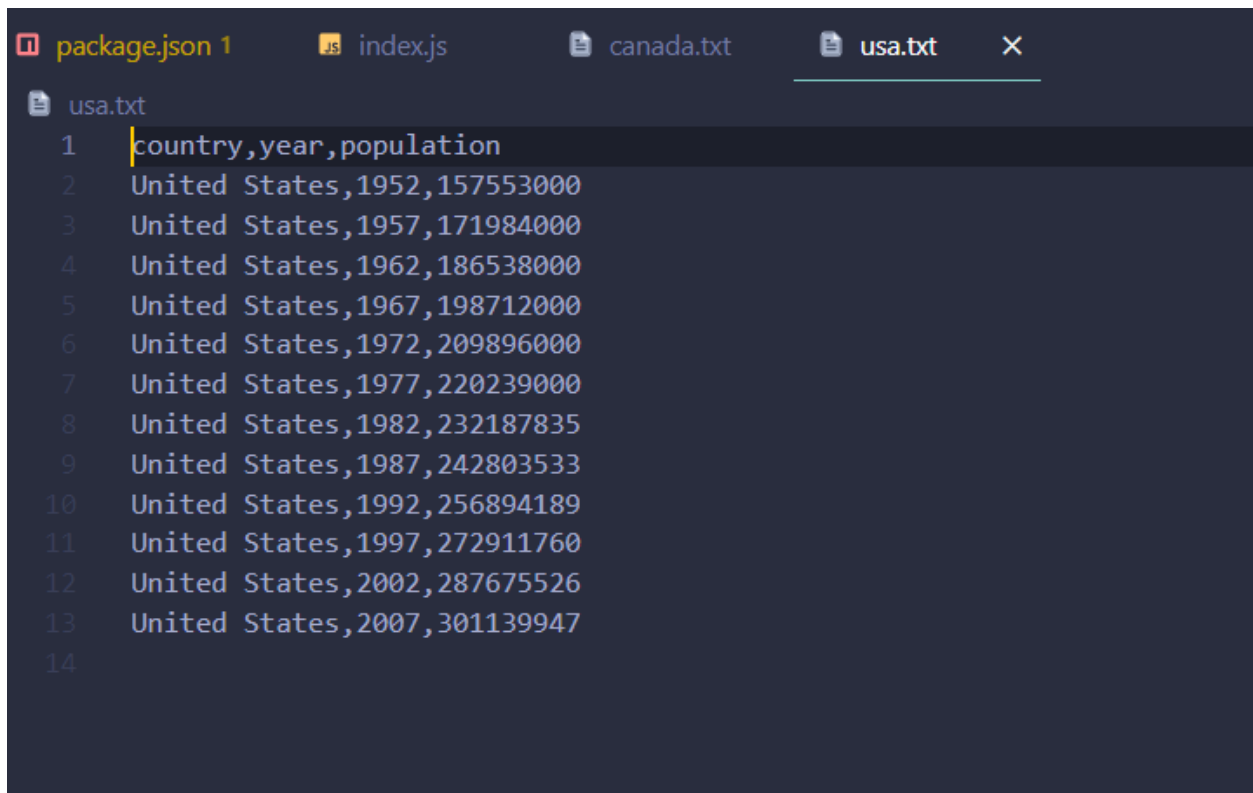
canada.txt:

usa.txt:

usa.txt

```
1   country,year,population
2   United States,1952,157553000
3   United States,1957,171984000
4   United States,1962,186538000
5   United States,1967,198712000
6   United States,1972,209896000
7   United States,1977,220239000
8   United States,1982,232187835
9   United States,1987,242803533
10  United States,1992,256894189
11  United States,1997,272911760
12  United States,2002,287675526
13  United States,2007,301139947
14
```

code:

```javascript
     var csv = require('csv-parser');
     var fs = require('fs');

     // Deleteing Text Files
     try {
         fs.unlink('canada.txt', (err) => {
             if (err) {
                 console.log(err);
                 return;
             }
             console.log('canada.txt deleted successfully');
         });
     } catch (err) {
         console.log('canada.txt not found');
     }

     try {
         fs.unlink('usa.txt', (err) => {
             if (err) {
                 console.log(err);
                 return;
             }
             console.log('usa.txt deleted successfully');
         });
     } catch (err) {
         console.log('usa.txt not found');
     }
```

```javascript
    // Adding header to text files
    var header = 'country,year,population';
    fs.writeFileSync('canada.txt', header + '\n');
    fs.writeFileSync('usa.txt', header + '\n');
    fs
        .createReadStream('input_countries.csv')
        .pipe(csv())
        .on('data', (row) => {
            // Filter data of Canada and write to text file
            if (row.country === 'Canada') {
                fs.appendFileSync('canada.txt', Object.values(row).join(',') + '\n');
            }
            // Filter data of USA and write to text file
            if (row.country === 'United States') {
                fs.appendFileSync('usa.txt', Object.values(row).join(',') + '\n');
            }
        })
        .on('end', () => {
            console.log('CSV File finished');
        });
```