

## Project 2: File Conversion

Create a menu-based file conversion program that takes either a **.json** file or a **.csv** file and converts it to **.csv** file and **.json** file respectively. The program should have a title at the top, and then ask which file conversion they prefer, **.csv to .json** or **.json to .csv**, which is followed by entering the path of the file to be converted and the path of the file to be saved. At last, the program should end with the message saying if the conversion was successful or a failure.

**.json:** json stands for **Java Script Object Notation** and is used in storing and transferring the data from a server to the webpage.

**.csv:** csv stands for **Comma Separated Values** which are used to store data. Each line in the file is a data record and every record contains one or multiple attributes separated by commas.

Consider the following data

Album	Year	US_peak_chart_pos
Gilgamesh	1975	-
Sahakti with John McLaughlin	1976	194
A Handful of Beauty	1976	168
Natural Elements	1977	-
Another Fine Tune You've Got Me Into	1979	-
Arriving Twice	2000	3
Under Great White Northern Lights	2010	11
Live in Mississippi	2011	-
Live at the Gold Dollar	2010	-
Nine Miles from the White City	2013	-

The .json file of the above data would look like this:

```
[
  {
    "album": "Gilgamesh",
    "year": 1975,
    "US_peak_chart_post": "-"
  },
  {
    "album": "Sahakti with John McLaughlin",
    "year": 1976,
    "US_peak_chart_post": 194
  },
  {
    "album": "A Handful of Beauty",
    "year": 1976,
    "US_peak_chart_post": 168
  },
  {
    "album": "Natural Elements",
    "year": 1977,
    "US_peak_chart_post": "-"
  },
  {
    "album": "Another Fine Tune You've Got Me Inot",
    "year": 1979,
    "US_peak_chart_post": "-"
  },
  {
    "album": "Arriving Twice",
    "year": 2000,
    "US_peak_chart_post": 3
  },
  {
    "album": "Icky Thump",
    "year": 2007,
    "US_peak_chart_post": 2
  },
  {
    "album": "Under Great White Northern Lights",
    "year": 2010,
    "US_peak_chart_post": 11
  },
]
```

```
{
  "album": "Live in Mississippi",
  "year": 2011,
  "US_peak_chart_post": "-"
},
{
  "album": "Live at the Gold Dollar",
  "year": 2012,
  "US_peak_chart_post": "-"
},
{
  "album": "Nine Miles from the White City",
  "year": 2013,
  "US_peak_chart_post": "-"
}
]
```

The .csv file of the above data would look like this:

```
"album","year","US_peak_chart_post"
"Gilgamesh",1975,"-"
"Sahakti with John McLaughlin",1976,194
"A Handful of Beauty",1976,168
"Natural Elements",1977,"-"
"Another Fine Tune You've Got Me Inot",1979,"-"
"Arriving Twice",2000,3
"Icky Thump",2007,2
"Under Great White Northern Lights",2010,11
"Live in Mississippi",2011,"-"
"Live at the Gold Dollar",2012,"-"
"Nine Miles from the White City",2013,"-"
```

**Note:** JSON files can contain more complex data unlike this which cannot be converted into CSV files, this is when the conversion fails.

You'll be given either a .json file or a .csv file which you'll have to convert it to the other format.