

## CASE1: NON – ENGLISH CHARACTERS

### INPUT:

dict1.json

A screenshot of a Notepad window titled '\*dict1 - Notepad'. The window contains the following JSON content:

```
{
  "strikers": [
    { "name": "Alexis Sanchez", "club": "Manchester United" },
    { "name": "Robin van Persie", "club": "Feyenoord" }
  ],
  "language": [
    { "Hindi": "यह कार है", "Japanese": "英語辞書" },
    { "French": "dictionnaire anglais", "Greek": "αγγλικό λεξικό", "German": "Englisches Wörterbuch" }
  ]
}
```

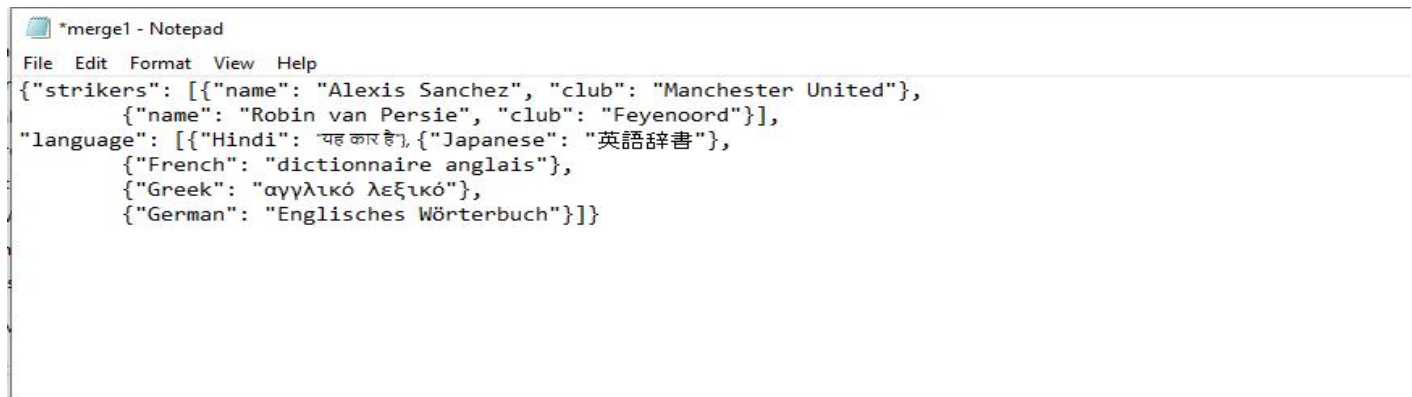
dict2.json

```
{
  "strikers": [
    { "name": "Nicolas Pepe", "club": "Arsenal" }
  ],
  "employee": [
    { "name": "abcd", "age": 2 },
    { "name": "defg", "age": 3 }
  ]
}
```

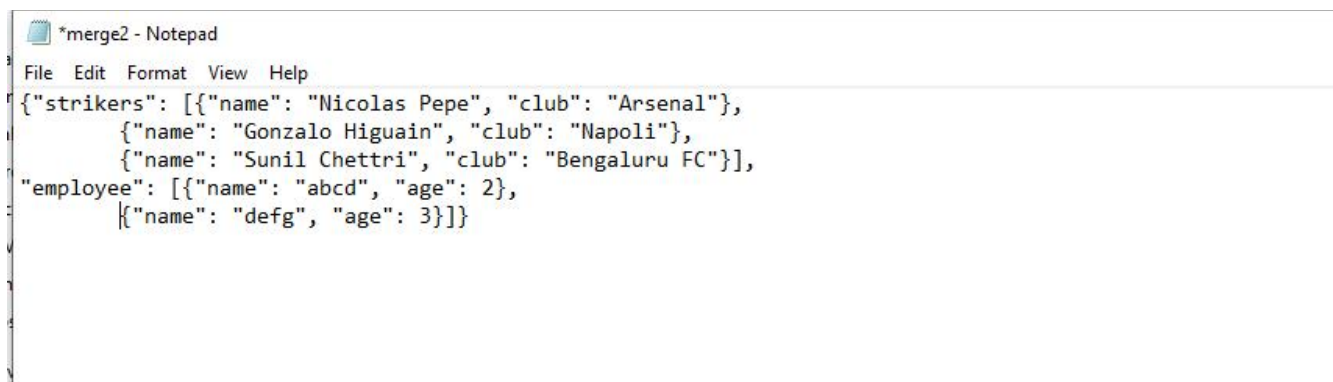
dict3.json

```
{
  "strikers": [
    { "name": "Gonzalo Higuain", "club": "Napoli" },
    { "name": "Sunil Chettri", "club": "Bengaluru FC" }
  ]
}
```

### OUTPUT:

A screenshot of a Notepad window titled '\*merge1 - Notepad'. The window contains the following JSON content:

```
{
  "strikers": [
    { "name": "Alexis Sanchez", "club": "Manchester United" },
    { "name": "Robin van Persie", "club": "Feyenoord" }
  ],
  "language": [
    { "Hindi": "यह कार है", "Japanese": "英語辞書", "French": "dictionnaire anglais", "Greek": "αγγλικό λεξικό", "German": "Englisches Wörterbuch" }
  ]
}
```

A screenshot of a Notepad window titled '\*merge2 - Notepad'. The window contains the following JSON content:

```
{
  "strikers": [
    { "name": "Nicolas Pepe", "club": "Arsenal" },
    { "name": "Gonzalo Higuain", "club": "Napoli" },
    { "name": "Sunil Chettri", "club": "Bengaluru FC" }
  ],
  "employee": [
    { "name": "abcd", "age": 2 },
    { "name": "defg", "age": 3 }
  ]
}
```

## CASE2: GENERIC SOLUTION

### INPUT:

**dict1.json**

```
{"strikers": [{ "name": "Gonzalo Higuain", "club": "Napoli" },  
               { "name": "Sunil Chettri", "club": "Bengaluru FC" } ] }
```

**dict2.json**

```
{"strikers": [{ "name": "Nicolas Pepe", "club": "Arsenal" } ],  
"employee": [{"name": "abcd", "age": 2 },  
              {"name": "defg", "age": 3 } ] }
```

**dict3.json**

```
{"strikers": [{ "name": "Gonzalo Higuain", "club": "Napoli" },  
               { "name": "Sunil Chettri", "club": "Bengaluru FC" } ] }
```

### OUTPUT:

## CASE3: MAXIMUM FILE SIZE IS TOO SMALL

### OUTPUT:

```
PS F:\> py final.py  
Enter Folder Path  
F:\\  
Enter input file base name:  
dict  
Enter output file base name:  
merge  
The output file with the same name exists.  
If you wish to overwrite, enter ( 1 ) or if you would like to enter a new name enter ( 2 )  
1  
Enter maximum file size for output (in bytes):  
40  
Please enter a larger file size (atleast larger than the largest input file [323]):  
350  
PS F:\> 
```

## REASON:

Size of dict1: 323

Size of dict2: 69

Size of dict3: 112

Since, size of all files are greater than the given maximum file size.

## CASE4: MERGE FILE CREATION WITH SIZE CONSTRAINTS

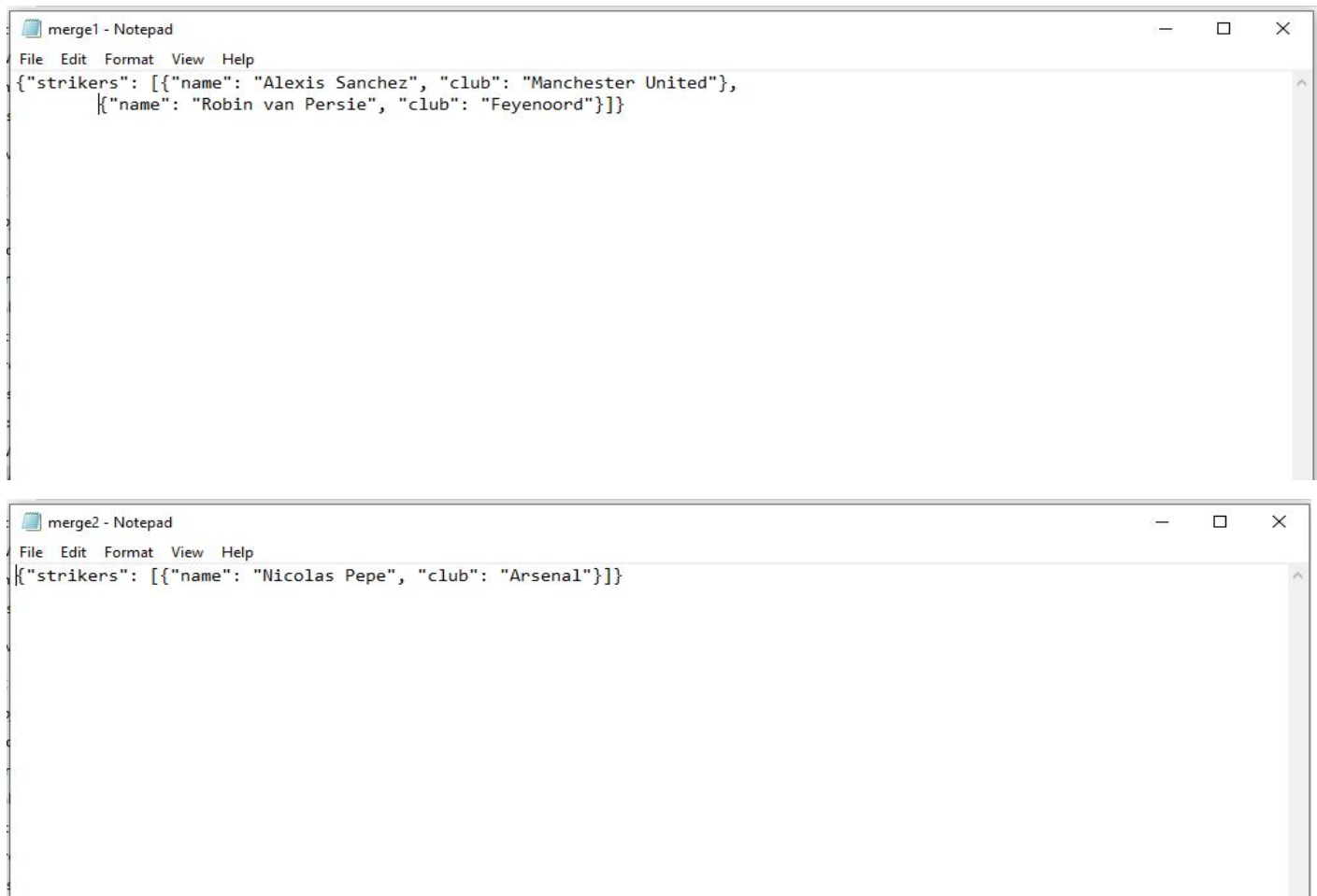
**INPUT:** folder\_path – 'F:\',

Input\_base\_File\_name – 'dict',

Output\_base\_File\_name – 'merge'

Max\_file\_size – 150

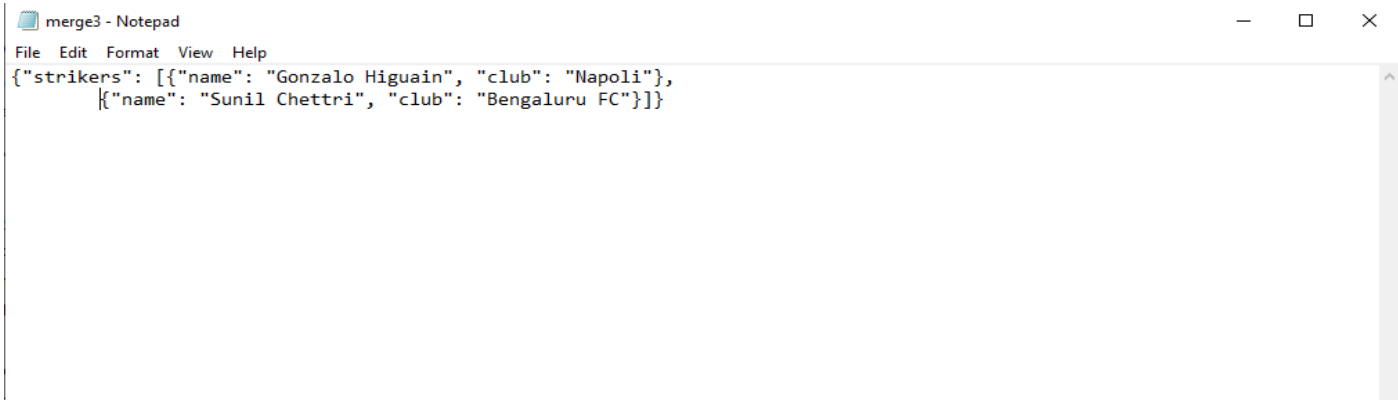
## OUTPUT:



The image shows two Notepad windows. The top window, titled 'merge1 - Notepad', contains a JSON object with a 'strikers' array containing two elements: one for Alexis Sanchez (Manchester United) and one for Robin van Persie (Feyenoord). The bottom window, titled 'merge2 - Notepad', contains a JSON object with a 'strikers' array containing one element: Nicolas Pepe (Arsenal).

```
merge1 - Notepad
File Edit Format View Help
{"strikers": [{"name": "Alexis Sanchez", "club": "Manchester United"},
               {"name": "Robin van Persie", "club": "Feyenoord"}]}
```

```
merge2 - Notepad
File Edit Format View Help
{"strikers": [{"name": "Nicolas Pepe", "club": "Arsenal"}]}
```



```
merge3 - Notepad
File Edit Format View Help
{"strikers": [{"name": "Gonzalo Higuain", "club": "Napoli"},
               {"name": "Sunil Chettri", "club": "Bengaluru FC"}]}
```

## REASON:

Size of dict1: 127

Size of dict2: 69

Size of dict3: 112

Created 3 merge files, since the maximum file size of all is 150 and the given size is 150

## CASE5: MERGE FILE CREATION WITH SIZE CONSTRAINTS

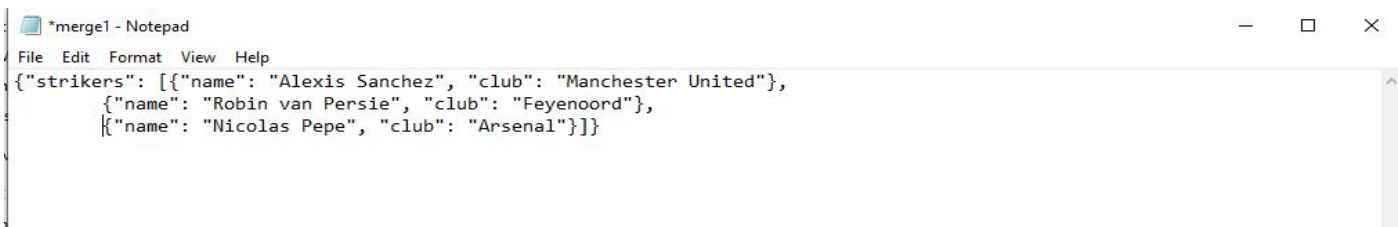
**INPUT:** folder\_path – 'F:\',

Input\_base\_File\_name – 'dict',

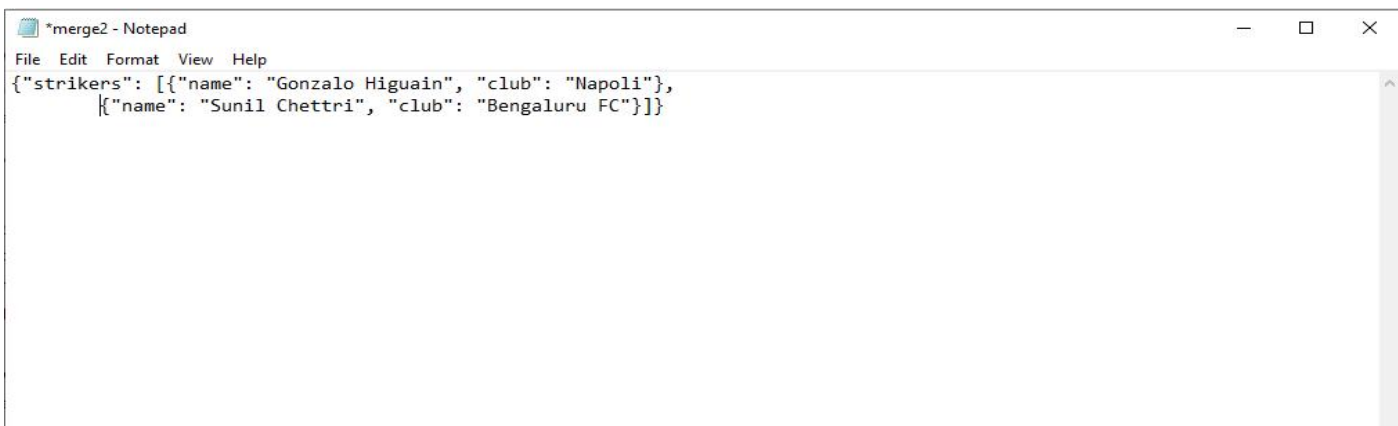
Output\_base\_File\_name – 'merge'

Max\_file\_size – 250

## OUTPUT:



```
*merge1 - Notepad
File Edit Format View Help
{"strikers": [{"name": "Alexis Sanchez", "club": "Manchester United"},
               {"name": "Robin van Persie", "club": "Feyenoord"},
               {"name": "Nicolas Pepe", "club": "Arsenal"}]}
```



```
*merge2 - Notepad
File Edit Format View Help
{"strikers": [{"name": "Gonzalo Higuain", "club": "Napoli"},
               {"name": "Sunil Chettri", "club": "Bengaluru FC"}]}
```

## REASON:

Size of dict1: 127

Size of dict2: 69

Size of dict3: 112

Created 2 merge files, since the maximum file size of all is 144 and the given size is 250. So, size of merge1 file is 167 and merge2 is 112.

## CASE6: MERGE FILE CREATION WITH SIZE CONSTRAINTS

**INPUT:** folder\_path – 'F:\',

Input\_base\_File\_name – 'dict',

Output\_base\_File\_name – 'merge'

Max\_file\_size – 400

## OUTPUT:



```
*merge1 - Notepad
File Edit Format View Help
{"strikers": [{"name": "Alexis Sanchez", "club": "Manchester United"},
  {"name": "Robin van Persie", "club": "Feyenoord"},
  {"name": "Nicolas Pepe", "club": "Arsenal"},
  {"name": "Gonzalo Higuain", "club": "Napoli"},
  {"name": "Sunil Chettri", "club": "Bengaluru FC"}]}
```

Ln 5, Col 53 100% Windows (CRLF) UTF-8

## REASON:

Size of dict1: 127

Size of dict2: 69

Size of dict3: 112

Created 1 merge files, since the sum of size of all files are 308 and the given size is 400.