


```
from google.colab import files

uploaded = files.upload()
```




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Saving Gender Wage Gap.csv to Gender Wage Gap.csv

```
import pandas as pd
df = pd.read_csv('Gender Wage Gap.csv')
df
```




	LOCATION	INDICATOR	SUBJECT	MEASURE	FREQUENCY	TIME	Value	Flag	Codes
0	AUS	WAGEGAP	EMPLOYEE	PC	A	1975	21.582734		NaN
1	AUS	WAGEGAP	EMPLOYEE	PC	A	1976	20.754717		NaN
2	AUS	WAGEGAP	EMPLOYEE	PC	A	1977	18.390805		NaN
3	AUS	WAGEGAP	EMPLOYEE	PC	A	1978	19.791667		NaN
4	AUS	WAGEGAP	EMPLOYEE	PC	A	1979	20.000000		NaN
...
1304	BRA	WAGEGAP	EMPLOYEE	PC	A	2017	13.333333		NaN
1305	BRA	WAGEGAP	EMPLOYEE	PC	A	2018	10.666667		NaN
1306	BRA	WAGEGAP	EMPLOYEE	PC	A	2019	6.666667		NaN
1307	BRA	WAGEGAP	EMPLOYEE	PC	A	2020	6.250000		NaN
1308	BRA	WAGEGAP	EMPLOYEE	PC	A	2021	9.090909		NaN

1309 rows × 8 columns

```
# Bubble Sort algorithm for double array arr according to column with index col
def bubble_sort(arr, col):
    n = len(arr)
    for i in range(1,n):
        #Last i elements are already in place
        for j in range(1, n - i):
            #Compare adjacent elements
            if float(arr[j][col]) > float(arr[j + 1][col]):
                arr[j], arr[j + 1] = arr[j + 1], arr[j]
    return arr

import csv
file = csv.reader(open('Gender Wage Gap.csv', 'r'))
rows = [row for row in file]

sorted_rows = [' ', '.join(row) + '\n' for row in bubble_sort(rows, 6)]
with open('output.csv', 'w+') as f:
    f.writelines(sorted_rows)
pd.read_csv("output.csv")
```



	LOCATION	INDICATOR	SUBJECT	MEASURE	FREQUENCY	TIME	Value	Flag	Codes
0	EST	WAGEGAP	SELFEMPLOYED	PC	A	2020	-53.283390		
1	EST	WAGEGAP	SELFEMPLOYED	PC	A	2019	-40.535191		
2	EST	WAGEGAP	SELFEMPLOYED	PC	A	2010	-30.379969		
3	EST	WAGEGAP	SELFEMPLOYED	PC	A	2009	-28.117098		
4	EST	WAGEGAP	SELFEMPLOYED	PC	A	2011	-25.505442		
...
1304	POL	WAGEGAP	SELFEMPLOYED	PC	A	2010	61.631920		
1305	POL	WAGEGAP	SELFEMPLOYED	PC	A	2009	61.635010		
1306	POL	WAGEGAP	SELFEMPLOYED	PC	A	2011	61.928143		
1307	PRT	WAGEGAP	SELFEMPLOYED	PC	A	2006	62.250122		
1308	USA	WAGEGAP	SELFEMPLOYED	PC	A	2005	63.200001		

1309 rows × 8 columns

