```
from google.colab import files

uploaded = files.upload()
```

Choose Files No file chosen     Upload widget is only available when the cell has been executed in the current browser session. Please rerun this cell to enable.
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

```
# Selection Sort algorithm for double array arr according to column with index col
def selection_sort(arr, col):
  n = len(arr)
  for i in range(1,n):
    min_index = i
    for j in range(i + 1, n):
      if float(arr[j][col]) < float(arr[min_index][col]):
        min_index = j
        arr[i], arr[min_index] = arr[min_index], arr[i]
  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 selection_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 | 2014 | -25.084177 | |
| 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