In [20]:
```
# read an entire text file
a=open("E:\\Python.txt")
print(a.read())
```

```
There are many programming languages in the world.
Python is the easier and understandable programming language.
SQL is an important programming languge.
```

In [21]:
```
# read the first n lines of a file
a=open("E:\\Python.txt",'r')
b=a.readline()
print(b)
```

```
There are many programming languages in the world.
```

In [22]:
```
# append text to a file and display the text
a=open("E:\\Python.txt", "a")
a.write("\n")
a.write("Pandas is used to analyse the data.")
a.close()
a=open("E:\\Python.txt", "r")
print(a.read())
```

```
There are many programming languages in the world.
Python is the easier and understandable programming language.
SQL is an important programming languge.
Pandas is used to analyse the data.
```

In [8]:
```
# Write a Pandas program to read specific columns from a given excel file
import pandas as pd
import numpy as np
cols = [1, 2, 4]
a = pd.read_csv('E:\\Passport.csv', usecols=cols)
a
```

Out[8]:

	Name	Age	Place
0	Yang	18	Shanghai
1	Kai	20	Busan
2	Xing	22	Shenzen
3	Wang	24	Busan
4	Fang	26	Shanghai
5	Ram	28	Hyderabad
6	Shradda	30	Mumbai
7	Ranbir	32	Mumbai
8	Roy	34	Mumbai
9	Kiara	36	Mumbai

In [9]:
```
# To convert Python objects into JSON strings. Print all the values
import json
python_obj = {
  "name": "Yang",
  "Age":"18",
  "Place": "Shenghai"
}
print(type(python_obj))
j_data = json.dumps(python_obj)
print(j_data)
```

```
<class 'dict'>
{"name": "Yang", "Age": "18", "Place": "Shenghai"}
```

In [14]:
```
# Given is a dataframe showing the name, occupation, salary of people. Find the a
import pandas as pd
df = pd.read_csv('Passport.csv')
print(df)
print()
occ_average_age =df.groupby("Name")["Place"].mean()
print(occ_average_age)
```

```
---------------------------------------------------------------------------
FileNotFoundError                         Traceback (most recent call last)
~\AppData\Local\Temp/ipykernel_10884/3892938710.py in <module>
      1 # Given is a dataframe showing the name, occupation, salary of people.
 Find the average salary per occupation
      2 import pandas as pd
----> 3 df = pd.read_csv('Passport.csv')
      4 print(df)
      5 print()

~\anaconda3\lib\site-packages\pandas\util\_decorators.py in wrapper(*args, **kw
args)
    309                     stacklevel=stacklevel,
    310                 )
--> 311             return func(*args, **kwargs)
    312
    313         return wrapper

~\anaconda3\lib\site-packages\pandas\io\parsers\readers.py in read_csv(filepath
_or_buffer, sep, delimiter, header, names, index_col, usecols, squeeze, prefix,
mangle_dupe_cols, dtype, engine, converters, true_values, false_values, skipini
tialspace, skiprows, skipfooter, nrows, na_values, keep_default_na, na_filter,
 verbose, skip_blank_lines, parse_dates, infer_datetime_format, keep_date_col,
 date_parser, dayfirst, cache_dates, iterator, chunksize, compression, thousand
s, decimal, lineterminator, quotechar, quoting, doublequote, escapechar, commen
t, encoding, encoding_errors, dialect, error_bad_lines, warn_bad_lines, on_bad_
lines, delim_whitespace, low_memory, memory_map, float_precision, storage_optio
ns)
    584     kwds.update(kwds_defaults)
    585
--> 586     return _read(filepath_or_buffer, kwds)
    587
    588


~\anaconda3\lib\site-packages\pandas\io\parsers\readers.py in _read(filepath_or
_buffer, kwds)
    480
    481     # Create the parser.
--> 482     parser = TextFileReader(filepath_or_buffer, **kwds)
    483
    484     if chunksize or iterator:

~\anaconda3\lib\site-packages\pandas\io\parsers\readers.py in __init__(self, f,
engine, **kwds)
    809             self.options["has_index_names"] = kwds["has_index_names"]
    810
--> 811         self._engine = self._make_engine(self.engine)
    812
    813     def close(self):
```

```
~\anaconda3\lib\site-packages\pandas\io\parsers\readers.py in _make_engine(sel
f, engine)
   1038             )
   1039         # error: Too many arguments for "ParserBase"
-> 1040         return mapping[engine](self.f, **self.options)  # type: ignore
[call-arg]
   1041
   1042     def _failover_to_python(self):

~\anaconda3\lib\site-packages\pandas\io\parsers\c_parser_wrapper.py in __init__
(self, src, **kwds)
     49
     50         # open handles
---> 51         self._open_handles(src, kwds)
     52         assert self.handles is not None
     53

~\anaconda3\lib\site-packages\pandas\io\parsers\base_parser.py in _open_handles
(self, src, kwds)
    220         Let the readers open IOHandles after they are done with their p
otential raises.
    221         """
--> 222         self.handles = get_handle(
    223             src,
    224             "r",

~\anaconda3\lib\site-packages\pandas\io\common.py in get_handle(path_or_buf, mo
de, encoding, compression, memory_map, is_text, errors, storage_options)
    700         if ioargs.encoding and "b" not in ioargs.mode:
    701             # Encoding
--> 702             handle = open(
    703                 handle,
    704                 ioargs.mode,

FileNotFoundError: [Errno 2] No such file or directory: 'Passport.csv'
```

In [12]:
```
print(dataframe) # original dataframe

print()

occ_average_age = dataframe.groupby('occ')['salary'].mean() # required dataframe

print(occ_average_age)
```

```
---------------------------------------------------------------------------
NameError                                 Traceback (most recent call last)
~\AppData\Local\Temp/ipykernel_10884/1476323036.py in <module>
----> 1 print(dataframe) # original dataframe
      2
      3 print()
      4
      5 occ_average_age = dataframe.groupby('occ')['salary'].mean() # required
 dataframe

NameError: name 'dataframe' is not defined
```

In [ ]:
```

```