IMDB Data Processing

Download datset from IMDB website (https://www.imdb.com/interfaces/)) so that we can check if the word (or phrase) we found is an actor, an actress, a director or a title

All imports go here

In [1]:

```
import csv
import pickle
```

Load raw data

name_data.tsv --> name.basics.tsv.gz (https://datasets.imdbws.com/name.basics.tsv.gz)
title_data.tsv --> title.akas.tsv.gz (https://datasets.imdbws.com/title.akas.tsv.gz)

```
In [2]:
```

```
actor = []
actress = []
director = []
person = []
title = []
data = []
with open('name_data.tsv', 'r', encoding = 'utf-8') as data_file:
    reader = csv.reader(data_file, delimiter="\t")
    for row in reader:
        data. append (row)
for i in range(1, len(data)):
    row = data[i]
    job_titles = row[4].split(',')
    is famous = False
    if 'actor' in job_titles:
        actor.append(row[1])
        is famous = True
    if 'actress' in job_titles:
        actress.append(row[1])
        is_famous = True
    if 'director' in job_titles:
        director.append(row[1])
        is famous = True
    if is famous:
        person. append (row[1])
print (actor[:10])
with open('title_data.tsv', 'r', encoding = 'utf-8') as data_file:
    reader = csv.reader(data file, delimiter="\t")
    for row in reader:
        data. append (row)
for i in range(1, len(data)):
    row = data[i]
    if row[3]=='US':
        title.append(row[2])
print(title[:10])
```

['Fred Astaire', 'John Belushi', 'Ingmar Bergman', 'Humphrey Bogart', 'Marlon Brand o', 'Richard Burton', 'James Cagney', 'Gary Cooper', 'James Dean', 'Kirk Douglas'] ['Carmencita', 'The Clown and His Dogs', 'Blacksmithing Scene', 'Blacksmith Scene # 1', 'Blacksmithing', 'Blacksmith Scene', 'Chinese Opium Den', 'Corbett and Courtney Before the Kinetograph', 'The Corbett-Courtney Fight', 'Jim Corbett vs. Peter Courtney']

Convert each list to a set for fast indexing

```
In [3]:
```

```
actor = set(actor)
actress = set(actress)
director = set(director)
person = set(person)
title = set(title)
```

```
In [4]:
print('Daniel Craig' in actor)
True
In [5]:
print('Scarlett Johansson' in actress)
True
In [6]:
print('The Godfather' in title)
True
In [7]:
print('James Cameron' in director)
True
In [8]:
print('Chris Evans' in person)
True
Save the dictionarys to a pickle file
In [9]:
dataset = [actor, actress, director, person, title]
with open('imdb_data.pkl', 'wb') as save_file:
    pickle.dump(dataset, save_file, protocol=pickle.HIGHEST_PROTOCOL)
```