```python
import requests
import time
import pandas as pd
```

```python
url = "https://swapi.dev/api/films/1"

response = requests.get(url)
```

```python
response.status_code
```

```
200
```

```python
for i in range(1,11): #in Python up to 11 but not include 11
    print(f"https://swapi.dev/api/films/1{i}")
```

```
https://swapi.dev/api/films/11
https://swapi.dev/api/films/12
https://swapi.dev/api/films/13
https://swapi.dev/api/films/14
https://swapi.dev/api/films/15
https://swapi.dev/api/films/16
https://swapi.dev/api/films/17
https://swapi.dev/api/films/18
https://swapi.dev/api/films/19
https://swapi.dev/api/films/110
```

```python
response.json()
```

```
{'title': 'A New Hope',
 'episode_id': 4,
 'opening_crawl': "It is a period of civil war.\r\nRebel spaceships, striking\
 'director': 'George Lucas',
 'producer': 'Gary Kurtz, Rick McCallum',
 'release_date': '1977-05-25',
 'characters': ['https://swapi.dev/api/people/1/',
  'https://swapi.dev/api/people/2/',
  'https://swapi.dev/api/people/3/',
  'https://swapi.dev/api/people/4/',
  'https://swapi.dev/api/people/5/',
```

```
    'https://swapi.dev/api/people/6/',
    'https://swapi.dev/api/people/7/',
    'https://swapi.dev/api/people/8/',
    'https://swapi.dev/api/people/9/',
    'https://swapi.dev/api/people/10/',
    'https://swapi.dev/api/people/12/',
    'https://swapi.dev/api/people/13/',
    'https://swapi.dev/api/people/14/',
```

```python
result = response.json()
```

```python
result['episode_id']
```

4

```python
#over all code

import requests
import time
import pandas as pd

title = []

for i in range(1,5):
    url = f"https://swapi.dev/api/films/{i}"
    resp = requests.get(url)
    result = resp.json()

    title.append(result['title'])

    time.sleep(3)

df = pd.DataFrame({"title": title})

df
```

	title
0	A New Hope
1	The Empire Strikes Back
2	Return of the Jedi
3	The Phantom Menace

```python
title = []
episode_id = []
opening_crawl = []
director = []
producer = []
release_date = []
characters = []
planets = []

for i in range(1,5):
    url = f"https://swapi.dev/api/films/{i}" #becareful how to get a link
    resp = requests.get(url)
    result = resp.json()

    title.append(result['title'])
    episode_id.append(result['episode_id'])
    opening_crawl.append(result['opening_crawl'])
    director.append(result['director'])
    producer.append(result['producer'])
    release_date.append(result['release_date'])
    characters.append(result['characters'])
    planets.append(result['planets'])
    time.sleep(3) # seconds

df = pd.DataFrame({
    "title": title,
    "episode_id": episode_id,
    "opening_crawl": opening_crawl,
    "director": director,
    "producer": producer,
    "release_date": release_date,
    "characters": characters,
    "planets": planets,})

df
```

	title	episode_id	opening_crawl	director	producer	release_date	characters	p
0	A New Hope	4	It is a period of civil war.\r\nRebel spaceshi...	George Lucas	Gary Kurtz, Rick McCallum	1977-05-25	[https://swapi.dev/api/people/1/, https://swap...	[h... h
1	The Empire Strikes Back	5	It is a dark time for the\r\nRebellion. Althou...	Irvin Kershner	Gary Kurtz, Rick McCallum	1980-05-17	[https://swapi.dev/api/people/1/, https://swap...	[h... h
2	Return of the Jedi	6	Luke Skywalker has returned to\r\nhis home pla...	Richard Marquand	Howard G. Kazanjian, George Lucas, Rick McCallum	1983-05-25	[https://swapi.dev/api/people/1/, https://swap...	[h... h
3	The Phantom Menace	1	Turmoil has engulfed the\r\nGalactic Republic....	George Lucas	Rick McCallum	1999-05-19	[https://swapi.dev/api/people/2/, https://swap...	[h... h