

# API : Application Programming Interface

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

```
countryCodes = []
names = []
localNames = []
dates = []

EAsia_Code = ['CN', 'JP', 'KR', 'MN']
EAsia_Name = ['China', 'Japan', 'South Korea', 'Mongolia']
East_asia = dict(zip(EAsia_Code, EAsia_Name))

for i in Asia_Code :
    url = f"https://date.nager.at/api/v3/publicholidays/2023/{i}"
    response = requests.get(url)
    result = pd.DataFrame(response.json())
    countryCodes.append(result['countryCode'])
    names.append(result['name'])
    localNames.append(result['localName'])
    dates.append(result['date'])
    time.sleep(1)

df = pd.DataFrame({
    "CountryCode" : countryCodes,
    "Name" : names,
    "LocalName" : localNames,
    "Date" : dates
})

df = pd.DataFrame(zip(
    df["CountryCode"].explode(),
    df["Name"].explode(),
    df["LocalName"].explode(),
    df["Date"].explode()
))

df = df.rename(columns={0: "Country_Code",
                        1: "Name",
                        2: "Local_Name",
                        3: "Date"})

df
```

	Country_Code	Name	Local_Name	Date
0	CN	New Year's Day	元旦	2023-01-01
1	CN	Chinese New Year (Spring Festival)	春节	2023-01-22
2	CN	Qingming Festival (Tomb-Sweeping Day)	清明节	2023-04-05
3	CN	Labour Day	劳动节	2023-05-01
4	CN	Dragon Boat Festival	端午节	2023-06-22
5	CN	Mid-Autumn Festival	中秋节	2023-09-29
6	CN	National Day	国庆节	2023-10-01
7	JP	New Year's Day	元日	2023-01-02
8	JP	Coming of Age Day	成人の日	2023-01-09
9	JP	Foundation Day	建国記念の日	2023-02-11
10	JP	The Emperor's Birthday	天皇誕生日	2023-02-23
11	JP	Vernal Equinox Day	春分の日	2023-03-21
12	JP	Shōwa Day	昭和の日	2023-04-29
13	JP	Constitution Memorial Day	憲法記念日	2023-05-03
14	JP	Greenery Day	みどりの日	2023-05-04
15	JP	Children's Day	こどもの日	2023-05-05
16	JP	Marine Day	海の日	2023-07-17
17	JP	Mountain Day	山の日	2023-08-11
18	JP	Respect for the Aged Day	敬老の日	2023-09-18
19	JP	Autumnal Equinox Day	秋分の日	2023-09-23
20	JP	Health and Sports Day	体育の日	2023-10-09
21	JP	Culture Day	文化の日	2023-11-03
22	JP	Labour Thanksgiving Day	勤労感謝の日	2023-11-23
23	KR	New Year's Day	새해	2023-01-01
24	KR	Lunar New Year	설날	2023-01-21
25	KR	Lunar New Year	설날	2023-01-23
26	KR	Lunar New Year	설날	2023-01-24
27	KR	Independence Movement Day	3·1절	2023-03-01
28	KR	Children's Day	어린이날	2023-05-05
29	KR	Buddha's Birthday	부처님 오신 날	2023-05-27
30	KR	Memorial Day	현충일	2023-06-06
31	KR	Liberation Day	광복절	2023-08-15
32	KR	Chuseok	추석	2023-09-28
33	KR	Chuseok	추석	2023-09-29
34	KR	Chuseok	추석	2023-09-30
35	KR	National Foundation Day	개천절	2023-10-03
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36	KR	Hangul Day	한글날	2023-10-09
37	KR	Christmas Day	크리스마스	2023-12-25
38	MN	New Year's Day	Шинэ жил (Shine jil)	2023-01-01
39	MN	International Women's Day	Олон Улсын Эмэгтэйчүүдийн Баяр	2023-03-08
40	MN	Naadam Holiday	Наадам	2023-06-01
41	MN	Naadam Holiday	Наадам	2023-07-11
42	MN	Naadam Holiday	Наадам	2023-07-12
43	MN	Naadam Holiday	Наадам	2023-07-13
44	MN	Naadam Holiday	Наадам	2023-07-14
45	MN	Naadam Holiday	Наадам	2023-07-15
46	MN	Republic Day	Улс тунхагласны өдөр	2023-11-26
47	MN	Independence Day	Тусгаар Тогтнолын Өдөр	2023-12-29