In [57]:

```
import pandas as pd
import numpy as np
from matplotlib import pyplot as plt

Sig_eqs = pd.read_csv("earthquakes-2021-10-26_17-53-34_+0800.tsv",sep = '\t')
Sig_eqs.groupby('Country')['Total Deaths'].sum().sort_values(ascending = False).head(10)
```

Out[57]:

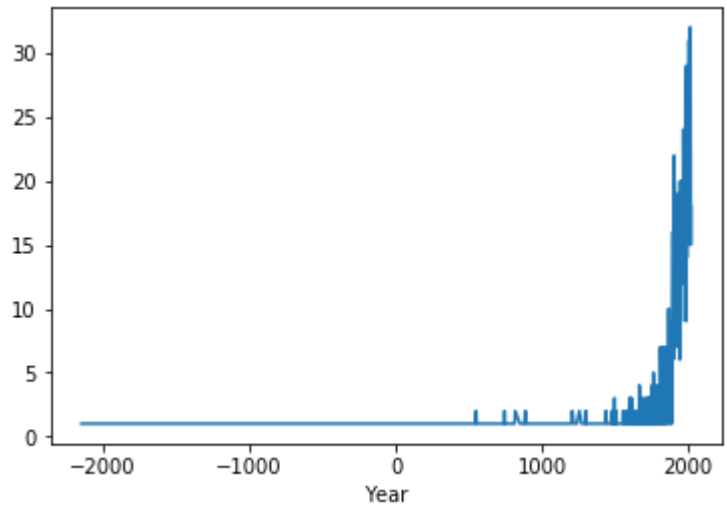
```
Country
CHINA          2041784.0
TURKEY          867454.0
IRAN            758638.0
SYRIA           437700.0
ITALY           359064.0
JAPAN           355137.0
HAITI           323770.0
AZERBAIJAN      310119.0
INDONESIA       280351.0
ARMENIA         189000.0
Name: Total Deaths, dtype: float64
```

In [58]:

```
Sig_eqs1 = Sig_eqs[Sig_eqs['Mag'] > 6.0]
Sig_eqs_count = Sig_eqs1.groupby('Year')['Mag'].count()
Sig_eqs_count.plot()
```

Out[58]:

```
<matplotlib.axes._subplots.AxesSubplot at 0x148bd4d7d68>
```



In [90]:

```
def CountEq_LargestEq(country):
    counteq = Sig_eqs[(Sig_eqs['Country'] == country)]
    maxmag = counteq[counteq['Mag'].isin([counteq['Mag'].max()])]
    countdate = maxmag['Year'].astype('int').astype('str')+'/'+maxmag['Mo'].astype('int').astype
('str')+'/'+maxmag['Dy'].astype('int').astype('str')
    print(counteq['Country'].count(),'',countdate.values[0])

CountEq_LargestEq('CHINA')
```

```
610  1668/7/25
```

In [ ]:

```

```

In [ ]:

```

```

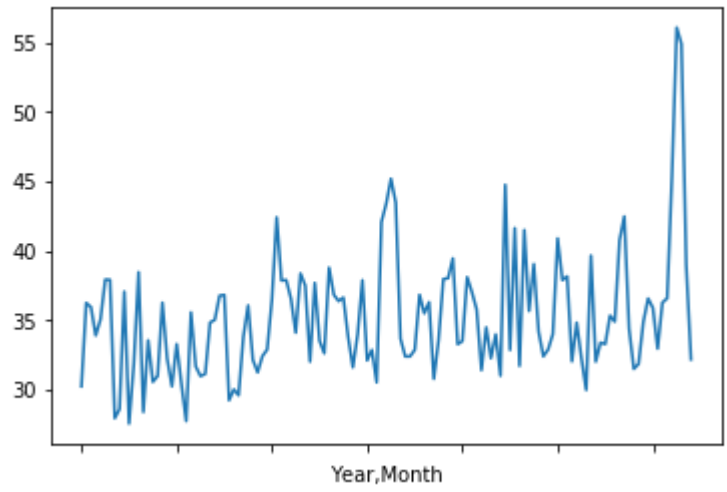
In [55]:

```
import pandas as pd

wind_speed = pd.read_csv("2281305.csv")
ave_speed = wind_speed.loc[:,('DATE','WND')]
ave_speed[['DA','DQC','TC','SR','SQC']] = wind_speed['WND'].str.split(',',expand = True)

ave_speed = ave_speed[ave_speed['DA'].astype('int') != 999]
ave_speed['DATE'] = pd.to_datetime(ave_speed['DATE'])
ave_speed['Year'] = ave_speed['DATE'].dt.year
ave_speed['Month'] = ave_speed['DATE'].dt.month
ave_speed['SR'] = ave_speed['SR'].astype('int')
ave_speed.groupby([ave_speed['Year'],ave_speed['Month']])['SR'].mean().plot()
```

```
C:\Users\CKZ\Anaconda3\lib\site-packages\IPython\core\interactiveshell.py:2785: Dt
ypeWarning: Columns (4,8,9,12,15,21,22,24,26,31,33,34) have mixed types. Specify d
type option on import or set low_memory=False.
  interactivity=interactivity, compiler=compiler, result=result)
```

Out[55]:

```
<matplotlib.axes._subplots.AxesSubplot at 0x20d04896fd0>
```



In [ ]:

In [4]:

```
import pandas as pd
import numpy as np
from matplotlib import pyplot as plt

rice_import = pd.read_csv("Rice_China_import_Value.csv")
rice_import.duplicated()
rice_import.drop_duplicates()
rice_import.isna()
rice_import.fillna(0)
```

Out[4]:

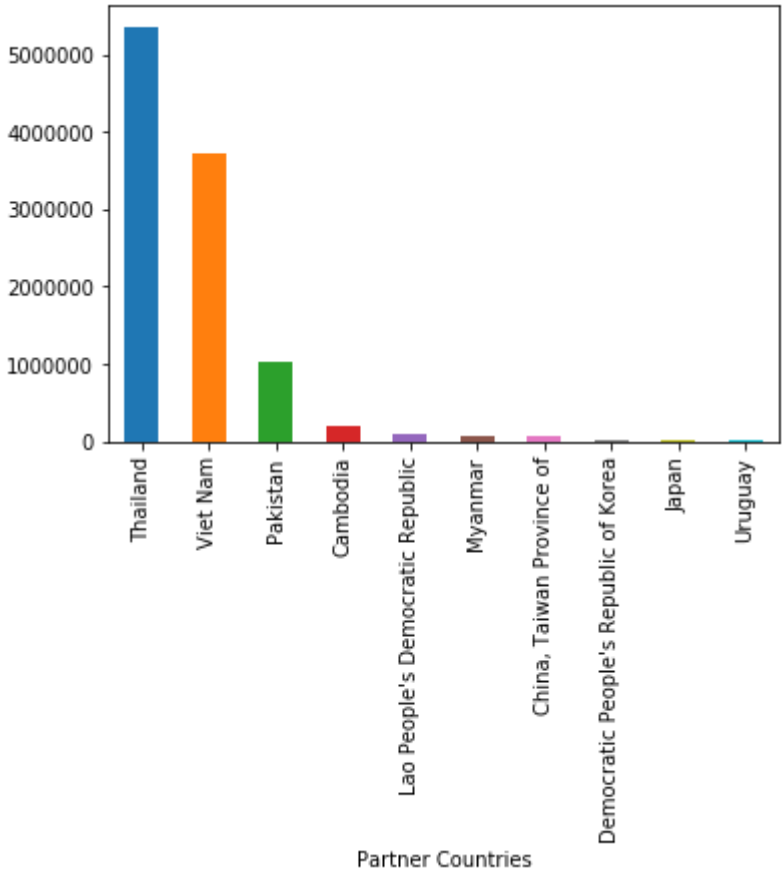
	Domain Code	Domain	Reporter Country Code	Reporter Countries	Partner Country Code	Partner Countries	Element Code	Element	Item Code	Item	Year Code
0	TM	Detailed trade matrix	41	China, mainland	8	Antigua and Barbuda	5622	Import Value	30	Rice - total (Rice milled equivalent)	2010
1	TM	Detailed trade matrix	41	China, mainland	9	Argentina	5622	Import Value	30	Rice - total (Rice milled equivalent)	1989
2	TM	Detailed trade	41	China,	10	Australia	5622	Import	30	Rice - total (Rice	1987

In [11]:

```
rice_import.groupby('Partner Countries')['Value'].sum().sort_values(ascending = False).head(10).plo
```

Out[11]:

<matplotlib.axes._subplots.AxesSubplot at 0x18711269160>



In [12]:

```
rice_import['Value'].sum()
```

Out[12]:

10615643

In [13]:

```
rice_import.groupby('Partner Countries')['Value'].sum().sort_values(ascending = False)
```

Out[13]:

```
Partner Countries
Thailand                                5365709
Viet Nam                                3733615
Pakistan                                1036064
Cambodia                                 196497
Lao People's Democratic Republic          82538
Myanmar                                   73931
China, Taiwan Province of                 60103
Democratic People's Republic of Korea     28082
Japan                                      7823
Uruguay                                    6518
India                                      5941
United States of America                   4783
Singapore                                  3836
China, mainland                            3458
Russian Federation                         2478
Republic of Korea                          1667
Australia                                  1470
Nepal                                       446
China, Hong Kong SAR                        423
China, Macao SAR                             70
Canada                                       49
Bulgaria                                     40
Italy                                        26
Oman                                         15
Unspecified Area                             13
New Zealand                                  11
Indonesia                                    10
United Kingdom                                9
Sri Lanka                                     6
Philippines                                   6
Netherlands                                   2
Germany                                       1
France                                        1
Saudi Arabia                                  1
Switzerland                                   1
Argentina                                     0
Belize                                        0
Malaysia                                      0
Costa Rica                                    0
Ethiopia                                      0
Greece                                        0
Qatar                                         0
Saint Vincent and the Grenadines              0
Spain                                         0
Turkey                                        0
Antigua and Barbuda                           0
Name: Value, dtype: int64
```

In [23]:

```
rice_import.groupby('Year')['Value'].mean()
```

Out[23]:

```
Year
1987     5847.000000
1988     7492.400000
1989    14477.333333
1990      610.368421
1991     2213.444444
1992     2297.294118
1993     1748.600000
1994     7074.450000
1995    25501.705882
1996    19097.933333
1997    10751.461538
1998    10003.583333
1999     9769.125000
2000    14089.250000
2001     9885.300000
2002     8851.444444
2003    10725.666667
2004    31442.375000
2005    19607.800000
2006    26224.454545
2007    14508.666667
2008    11462.250000
2009    22378.000000
2010    16885.800000
2011    24171.875000
2012    93799.833333
2013    70132.933333
2014    81929.600000
2015    98063.466667
2016    99132.500000
Name: Value, dtype: float64
```

In [24]:

```
rice_import.groupby('Year')['Value'].sum().sort_values()
```

Out[24]:

```
Year
1990       11597
1993       34972
1992       39054
1991       39842
1988       74924
1999       78153
2002       79663
1987       81858
2003       96531
2001       98853
2000      112714
1998      120043
1997      139769
1994      141489
2008      183396
2005      196078
2009      201402
2007      217630
2004      251539
2010      253287
1996      286469
2006      288469
1989      304024
2011      386750
1995      433529
2013     1051994
2012     1125598
2014     1228944
2015     1470952
2016     1586120
Name: Value, dtype: int64
```

In [25]:

```
rice_import['Partner Countries'].value_counts()
```

Out[25]:

```
Japan                                  30
Thailand                               30
United States of America               26
China, Taiwan Province of              26
Myanmar                                25
Viet Nam                               21
Italy                                  21
Lao People's Democratic Republic       20
Pakistan                               18
India                                  18
Republic of Korea                      16
China, Hong Kong SAR                   14
Australia                              13
Philippines                            12
Democratic People's Republic of Korea  12
China, mainland                        10
Cambodia                               10
Singapore                              10
United Kingdom                          8
China, Macao SAR                        6
Unspecified Area                        6
Nepal                                   6
Canada                                  6
New Zealand                             5
Russian Federation                      5
France                                  5
Switzerland                             4
Uruguay                                 4
Malaysia                                3
Netherlands                             3
Sri Lanka                               2
Germany                                 2
Indonesia                               2
Saint Vincent and the Grenadines        2
Bulgaria                                1
Spain                                   1
Belize                                  1
Saudi Arabia                            1
Qatar                                   1
Turkey                                  1
Argentina                               1
Costa Rica                              1
Greece                                  1
Oman                                    1
Antigua and Barbuda                     1
Ethiopia                                1
Name: Partner Countries, dtype: int64
```

In [ ]:

```
```