Mini-project

June 29, 2018

```
In [305]: import pandas as pd
          import numpy as np
          import random
          import matplotlib.pyplot as plt
          from matplotlib.offsetbox import (TextArea, DrawingArea, OffsetImage,
                                            AnnotationBbox)
```

```
In [306]: data = pd.read_csv('./world-development-indicators/Indicators.csv')
          data.shape
```

```
Out[306]: (5656458, 6)
```

Lets explore the health expenditure of India compared to other developing countries like China.

```
In [308]: health_filter='Health expenditure, total \(\% of GDP\)'
          india_code = 'IND'
          china_code = 'CHN'


          india_mask = data['CountryCode'].str.contains(india_code)
          china_mask = data['CountryCode'].str.contains(china_code)
          health_mask = data['IndicatorName'].str.contains(health_filter)

          india_health_exp = data[india_mask & health_mask]
          china_health_exp = data[china_mask & health_mask]
```

```
In [310]: india_health_exp.head(20)
```

```
Out[310]:         CountryName CountryCode                          IndicatorName  \
          2550719       India         IND  Health expenditure, total (% of GDP)
          2685740       India         IND  Health expenditure, total (% of GDP)
          2821173       India         IND  Health expenditure, total (% of GDP)
          2958149       India         IND  Health expenditure, total (% of GDP)
          3097445       India         IND  Health expenditure, total (% of GDP)
          3245806       India         IND  Health expenditure, total (% of GDP)
          3398139       India         IND  Health expenditure, total (% of GDP)
          3550764       India         IND  Health expenditure, total (% of GDP)
```

```
3705004       India         IND  Health expenditure, total (% of GDP)
3860366       India         IND  Health expenditure, total (% of GDP)
4029881       India         IND  Health expenditure, total (% of GDP)
4208428       India         IND  Health expenditure, total (% of GDP)
4387273       India         IND  Health expenditure, total (% of GDP)
4567586       India         IND  Health expenditure, total (% of GDP)
4746720       India         IND  Health expenditure, total (% of GDP)
4929535       India         IND  Health expenditure, total (% of GDP)
5111336       India         IND  Health expenditure, total (% of GDP)
5287013       India         IND  Health expenditure, total (% of GDP)
5453181       India         IND  Health expenditure, total (% of GDP)

          IndicatorCode  Year     Value
2550719  SH.XPD.TOTL.ZS  1995  4.064824
2685740  SH.XPD.TOTL.ZS  1996  3.942175
2821173  SH.XPD.TOTL.ZS  1997  4.294396
2958149  SH.XPD.TOTL.ZS  1998  4.343979
3097445  SH.XPD.TOTL.ZS  1999  4.075596
3245806  SH.XPD.TOTL.ZS  2000  4.314108
3398139  SH.XPD.TOTL.ZS  2001  4.546835
3550764  SH.XPD.TOTL.ZS  2002  4.454388
3705004  SH.XPD.TOTL.ZS  2003  4.350801
3860366  SH.XPD.TOTL.ZS  2004  4.561793
4029881  SH.XPD.TOTL.ZS  2005  4.307127
4208428  SH.XPD.TOTL.ZS  2006  4.085378
4387273  SH.XPD.TOTL.ZS  2007  3.940753
4567586  SH.XPD.TOTL.ZS  2008  3.991911
4746720  SH.XPD.TOTL.ZS  2009  4.053157
4929535  SH.XPD.TOTL.ZS  2010  3.824004
5111336  SH.XPD.TOTL.ZS  2011  3.829788
5287013  SH.XPD.TOTL.ZS  2012  3.806117
5453181  SH.XPD.TOTL.ZS  2013  3.967993

In [311]: china_health_exp.head(20)

Out[311]:         CountryName CountryCode                         IndicatorName  \
2523687       China         CHN  Health expenditure, total (% of GDP)
2658660       China         CHN  Health expenditure, total (% of GDP)
2794266       China         CHN  Health expenditure, total (% of GDP)
2930960       China         CHN  Health expenditure, total (% of GDP)
3069205       China         CHN  Health expenditure, total (% of GDP)
3215461       China         CHN  Health expenditure, total (% of GDP)
3368744       China         CHN  Health expenditure, total (% of GDP)
3520209       China         CHN  Health expenditure, total (% of GDP)
3675129       China         CHN  Health expenditure, total (% of GDP)
3829429       China         CHN  Health expenditure, total (% of GDP)
3994434       China         CHN  Health expenditure, total (% of GDP)
4174223       China         CHN  Health expenditure, total (% of GDP)
```

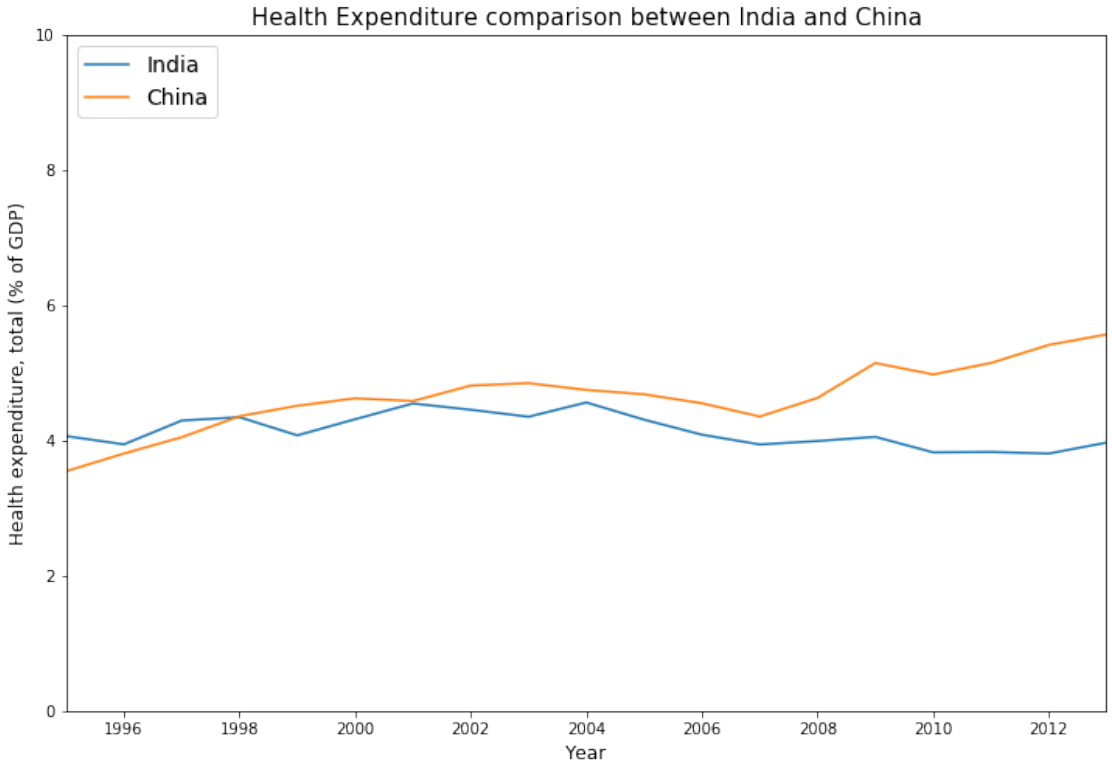
```
4352416       China         CHN  Health expenditure, total (% of GDP)
4532834       China         CHN  Health expenditure, total (% of GDP)
4712383       China         CHN  Health expenditure, total (% of GDP)
4893608       China         CHN  Health expenditure, total (% of GDP)
5077193       China         CHN  Health expenditure, total (% of GDP)
5252940       China         CHN  Health expenditure, total (% of GDP)
5422999       China         CHN  Health expenditure, total (% of GDP)

          IndicatorCode  Year     Value
2523687  SH.XPD.TOTL.ZS  1995  3.544976
2658660  SH.XPD.TOTL.ZS  1996  3.806619
2794266  SH.XPD.TOTL.ZS  1997  4.047860
2930960  SH.XPD.TOTL.ZS  1998  4.358571
3069205  SH.XPD.TOTL.ZS  1999  4.513426
3215461  SH.XPD.TOTL.ZS  2000  4.622937
3368744  SH.XPD.TOTL.ZS  2001  4.583395
3520209  SH.XPD.TOTL.ZS  2002  4.811688
3675129  SH.XPD.TOTL.ZS  2003  4.847566
3829429  SH.XPD.TOTL.ZS  2004  4.747541
3994434  SH.XPD.TOTL.ZS  2005  4.682612
4174223  SH.XPD.TOTL.ZS  2006  4.550478
4352416  SH.XPD.TOTL.ZS  2007  4.354222
4532834  SH.XPD.TOTL.ZS  2008  4.628598
4712383  SH.XPD.TOTL.ZS  2009  5.145722
4893608  SH.XPD.TOTL.ZS  2010  4.976277
5077193  SH.XPD.TOTL.ZS  2011  5.145995
5252940  SH.XPD.TOTL.ZS  2012  5.413016
5422999  SH.XPD.TOTL.ZS  2013  5.567502
```

Lets plot these dataframe together on line plot to visualize it better

```
In [312]: fig,ax = plt.subplots(figsize=(12,8))
          line1, = ax.plot(india_health_exp['Year'].values, india_health_exp['Value'].values,
          line2, = ax.plot(china_health_exp['Year'].values, china_health_exp['Value'].values,

          ax.set_xlabel('Year', fontsize='12')
          ax.set_ylabel(india_health_exp['IndicatorName'].iloc[0], fontsize='12')
          ax.set_title('Health Expenditure comparison between India and China',fontsize='15')
          ax.legend(handles=[line1, line2], loc='upper left', fontsize='14')
          ax.set_ylim([0,10])
          ax.set_xlim([india_health_exp['Year'].min(),india_health_exp['Year'].max()])
          plt.show()
```



In 1995, India's health expenditure(% of GDP) was 4.06% compared to China's 3.5% but India's health expenditure have rather decreased over the years with 3.9% of GDP in 2013 compared to China's 5.56%.

Lets explore the Health expenditure per capita and it's correlation with the Life expectancy of polulation of India.

```
In [313]: health_exp_filter = 'Health expenditure per capita \(current US\$\)'
          country_filter = 'IND'

          mask1 = data['CountryCode'].str.contains(country_filter)
          mask2 = data['IndicatorName'].str.contains(health_exp_filter)

          health_exp_data = data[mask1 & mask2]
```

```
In [314]: health_exp_data.head()
```

```
Out[314]:         CountryName CountryCode                             IndicatorName  \
          2550713       India         IND  Health expenditure per capita (current US$)
          2685734       India         IND  Health expenditure per capita (current US$)
          2821167       India         IND  Health expenditure per capita (current US$)
          2958143       India         IND  Health expenditure per capita (current US$)
          3097439       India         IND  Health expenditure per capita (current US$)

                  IndicatorCode  Year      Value
```

```
2550713   SH.XPD.PCAP  1995  16.088374
2685734   SH.XPD.PCAP  1996  16.226104
2821167   SH.XPD.PCAP  1997  18.774171
2958143   SH.XPD.PCAP  1998  18.840850
3097439   SH.XPD.PCAP  1999  18.683437
```

```
In [315]: life_exp_filter = 'Life expectancy at birth, total \(years\)'

          mask3 = data['IndicatorName'].str.contains(life_exp_filter)

          life_exp_data = data[mask1 & mask3]
```

```
In [316]: life_exp_data.head()
```

```
Out[316]:        CountryName CountryCode                             IndicatorName  \
          11684        India         IND  Life expectancy at birth, total (years)
          36635        India         IND  Life expectancy at birth, total (years)
          64177        India         IND  Life expectancy at birth, total (years)
          92622        India         IND  Life expectancy at birth, total (years)
          121419       India         IND  Life expectancy at birth, total (years)

                   IndicatorCode  Year      Value
          11684   SP.DYN.LE00.IN  1960  41.171951
          36635   SP.DYN.LE00.IN  1961  41.790488
          64177   SP.DYN.LE00.IN  1962  42.417415
          92622   SP.DYN.LE00.IN  1963  43.052732
          121419  SP.DYN.LE00.IN  1964  43.698415
```

Before calculating the correlation between the life expectancy and health expenditure we need to slice the data further since health expenditure data is only available between 1995 to 2013.

```
In [317]: filtered_life_exp_data = life_exp_data[life_exp_data['Year'].isin(health_exp_data['Y
```

```
In [318]: filtered_life_exp_data.shape
```

```
Out[318]: (19, 6)
```

```
In [319]: health_exp_data.shape
```

```
Out[319]: (19, 6)
```

```
In [320]: np.corrcoef(health_exp_data['Value'],filtered_life_exp_data['Value'])
```

```
Out[320]: array([[1.        , 0.95656092],
                 [0.95656092, 1.        ]])
```

Finding: Correlation value of 0.95 between the Health expenditure and Life expectancy clearly suggests growth in health expenditure have lead to proportional growth in life expectancy in India.

Lets explore the GDP per capita data for India

```
In [321]: gdp_filter = 'GDP per capita \(constant 2005'

          mask4 = data['IndicatorName'].str.contains(gdp_filter)

          gdp_data = data[mask1 & mask4]
```

```
In [323]: gdp_data.describe()
```

Out[323]:

	Year	Value
count	55.00000	55.000000
mean	1987.00000	472.921846
std	16.02082	272.215645
min	1960.00000	228.304470
25%	1973.50000	273.019022
50%	1987.00000	349.639894
75%	2000.50000	580.708296
max	2014.00000	1233.949344

Exploring the changes in GDP per capita of India by plotting it on line plot

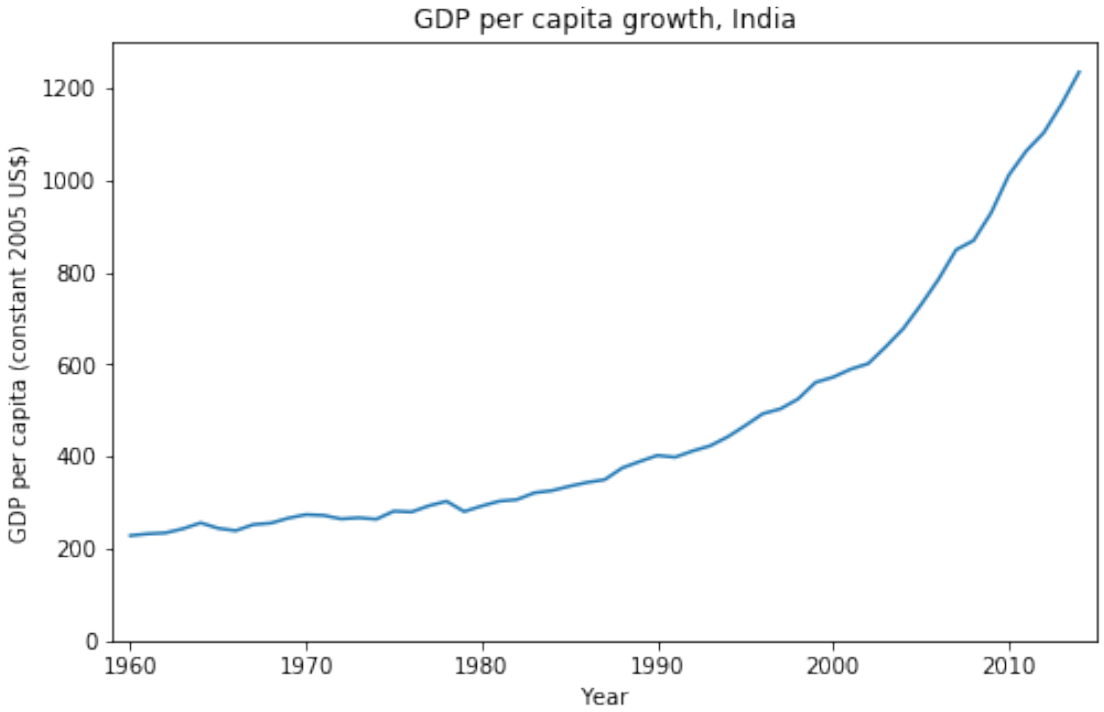
```
In [324]: plt.figure(figsize=(8,5))
          plt.plot(gdp_data['Year'].values, gdp_data['Value'].values)

          plt.xlabel('Year')
          plt.ylabel(gdp_data['IndicatorName'].iloc[0])

          plt.title('GDP per capita growth, India')

          plt.axis([1959,2015,0,1300])

          plt.show()
```



We can see there has been a substantial growth in GDP since 1990.

Lets see if we can find a correlation between the Health expenditure, Life expectancy and GDP per capita by plotting it on the scatterplot.

First, we will merge the three dataframes based on years into new dataframe 'country_data'

```
In [325]: country_data = pd.merge(gdp_data, health_exp_data[['IndicatorName','Year','Value']],

In [326]: country_data.head()

Out[326]:   CountryName CountryCode                      IndicatorName_x   IndicatorCode  \
          0       India         IND  GDP per capita (constant 2005 US$)  NY.GDP.PCAP.KD
          1       India         IND  GDP per capita (constant 2005 US$)  NY.GDP.PCAP.KD
          2       India         IND  GDP per capita (constant 2005 US$)  NY.GDP.PCAP.KD
          3       India         IND  GDP per capita (constant 2005 US$)  NY.GDP.PCAP.KD
          4       India         IND  GDP per capita (constant 2005 US$)  NY.GDP.PCAP.KD

             Year     Value_x IndicatorName_y  Value_y
          0  1960  228.304470             NaN      NaN
          1  1961  232.142053             NaN      NaN
          2  1962  234.166685             NaN      NaN
          3  1963  243.176418             NaN      NaN
          4  1964  255.963668             NaN      NaN

In [328]: country_data.tail()
```

```
Out[328]:    CountryName CountryCode                    IndicatorName_x  \
          50       India         IND  GDP per capita (constant 2005 US$)
          51       India         IND  GDP per capita (constant 2005 US$)
          52       India         IND  GDP per capita (constant 2005 US$)
          53       India         IND  GDP per capita (constant 2005 US$)
          54       India         IND  GDP per capita (constant 2005 US$)

               IndicatorCode  Year      Value_x  \
          50  NY.GDP.PCAP.KD  2010  1010.309221
          51  NY.GDP.PCAP.KD  2011  1063.159868
          52  NY.GDP.PCAP.KD  2012  1102.910323
          53  NY.GDP.PCAP.KD  2013  1164.342834
          54  NY.GDP.PCAP.KD  2014  1233.949344

                                          IndicatorName_y    Value_y
          50  Health expenditure per capita (current US$)  53.995063
          51  Health expenditure per capita (current US$)  60.544216
          52  Health expenditure per capita (current US$)  58.246599
          53  Health expenditure per capita (current US$)  61.408213
          54                                          NaN        NaN
```

```
In [329]: country_data.isnull().any()
```

```
Out[329]: CountryName        False
          CountryCode        False
          IndicatorName_x    False
          IndicatorCode      False
          Year               False
          Value_x            False
          IndicatorName_y     True
          Value_y             True
          dtype: bool
```

We can see there are NaN values for IndicatorName_y and Value_y since the health expenditure per capita is not available for years 1960 to 1994 and 2014. We can fill the NaN value with last known values using fillna method assuming health expenditure (1960 to 1994) less than equal to health expenditure (1995).

```
In [330]: country_data = country_data.fillna(method='backfill')
```

```
In [331]: country_data = country_data.fillna(method='ffill')
```

```
In [332]: country_data.isnull().any()
```

```
Out[332]: CountryName        False
          CountryCode        False
          IndicatorName_x    False
          IndicatorCode      False
          Year               False
```

```
Value_x            False
IndicatorName_y    False
Value_y            False
dtype: bool
```

```
In [333]: country_data.tail()
```

```
Out[333]:    CountryName CountryCode                     IndicatorName_x  \
50       India         IND  GDP per capita (constant 2005 US$)
51       India         IND  GDP per capita (constant 2005 US$)
52       India         IND  GDP per capita (constant 2005 US$)
53       India         IND  GDP per capita (constant 2005 US$)
54       India         IND  GDP per capita (constant 2005 US$)

     IndicatorCode  Year      Value_x  \
50  NY.GDP.PCAP.KD  2010  1010.309221
51  NY.GDP.PCAP.KD  2011  1063.159868
52  NY.GDP.PCAP.KD  2012  1102.910323
53  NY.GDP.PCAP.KD  2013  1164.342834
54  NY.GDP.PCAP.KD  2014  1233.949344

                                IndicatorName_y    Value_y
50  Health expenditure per capita (current US$)  53.995063
51  Health expenditure per capita (current US$)  60.544216
52  Health expenditure per capita (current US$)  58.246599
53  Health expenditure per capita (current US$)  61.408213
54  Health expenditure per capita (current US$)  61.408213
```

```
In [334]: country_data = pd.merge(country_data, life_exp_data[['IndicatorName','Year','Value']]
```

```
In [335]: country_data.isnull().any()
```

```
Out[335]: CountryName        False
CountryCode        False
IndicatorName_x    False
IndicatorCode      False
Year               False
Value_x            False
IndicatorName_y    False
Value_y            False
IndicatorName      False
Value              False
dtype: bool
```

```
In [336]: country_data.tail()
```

```
Out[336]:    CountryName CountryCode                     IndicatorName_x  \
49       India         IND  GDP per capita (constant 2005 US$)
50       India         IND  GDP per capita (constant 2005 US$)
```

```
51       India         IND  GDP per capita (constant 2005 US$)
52       India         IND  GDP per capita (constant 2005 US$)
53       India         IND  GDP per capita (constant 2005 US$)

     IndicatorCode  Year      Value_x  \
49  NY.GDP.PCAP.KD  2009   928.977520
50  NY.GDP.PCAP.KD  2010  1010.309221
51  NY.GDP.PCAP.KD  2011  1063.159868
52  NY.GDP.PCAP.KD  2012  1102.910323
53  NY.GDP.PCAP.KD  2013  1164.342834

                                IndicatorName_y    Value_y  \
49  Health expenditure per capita (current US$)  45.575644
50  Health expenditure per capita (current US$)  53.995063
51  Health expenditure per capita (current US$)  60.544216
52  Health expenditure per capita (current US$)  58.246599
53  Health expenditure per capita (current US$)  61.408213

                              IndicatorName      Value
49  Life expectancy at birth, total (years)  66.102634
50  Life expectancy at birth, total (years)  66.506146
51  Life expectancy at birth, total (years)  66.904171
52  Life expectancy at birth, total (years)  67.289878
53  Life expectancy at birth, total (years)  67.660415
```

In [337]:
```
fig, axis = plt.subplots(figsize=(15,10))
# Grid lines, Xticks, Xlabel, Ylabel

axis.yaxis.grid(True)
axis.set_title('Health Expenditure vs GDP Growth(India)',fontsize=20)
axis.set_xlabel(country_data['IndicatorName_x'].iloc[0],fontsize=15)
axis.set_ylabel(country_data['IndicatorName_y'].iloc[0],fontsize=15)
axis.set_ylim(10,65)

axis.annotate("1960 India, \nLife expectancy- 41years \nGDP(per capita)- 228$",
              xy=(220, 17),
              xycoords='data',
              xytext=(195, 33),
              textcoords='data',
              arrowprops=dict(arrowstyle="->",
              connectionstyle="arc3"),fontsize=14, color='green'
            )

axis.annotate("1995 India, \nLife expectancy- 60years \nGDP(per capita)- 466$",
              xy=(480, 17),
              xycoords='data',
              xytext=(480, 43),
              textcoords='data',
```

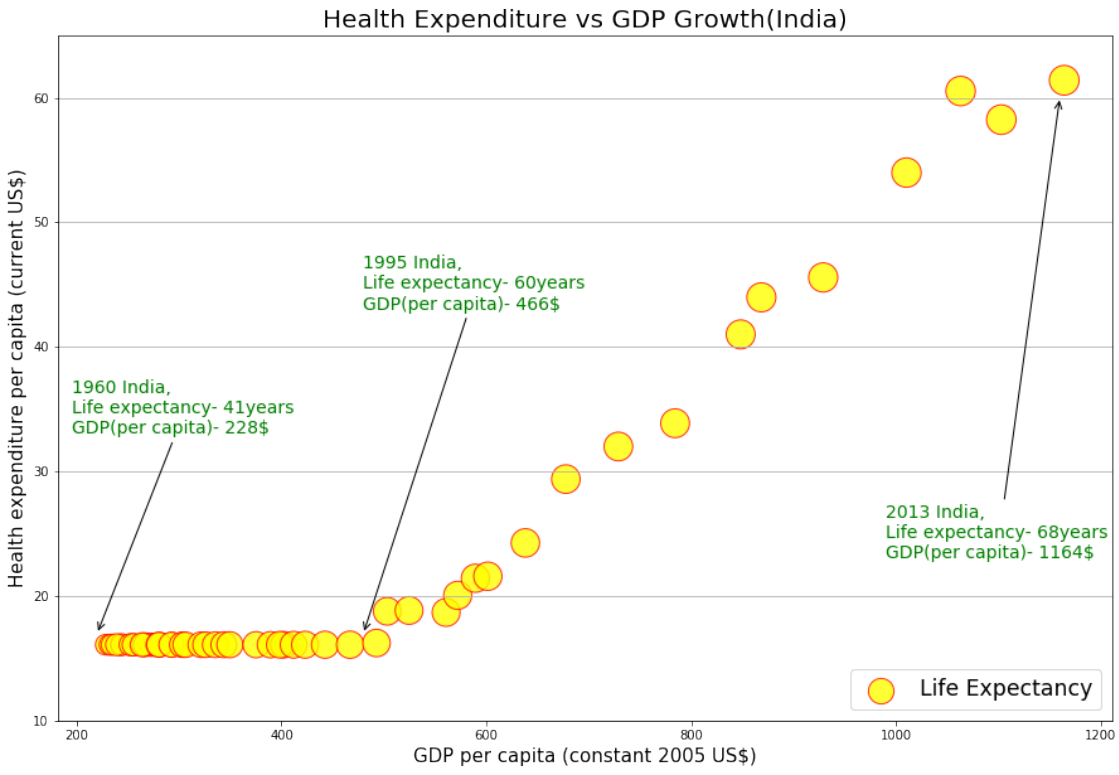
```
                    arrowprops=dict(arrowstyle="->",
                    connectionstyle="arc3"),fontsize=14, color='green'
                )

axis.annotate("2013 India, \nLife expectancy- 68years \nGDP(per capita)- 1164$",
                    xy=(1160, 60),
                    xycoords='data',
                    xytext=(990, 23),
                    textcoords='data',
                    arrowprops=dict(arrowstyle="->",
                    connectionstyle="arc3"),fontsize=14, color='green'
                )

X = country_data['Value_x']
Y = country_data['Value_y']
S = country_data['Value']**1.5

axis.scatter(X, Y, s=S,label='Life Expectancy',
                alpha=0.8, color='yellow', edgecolors='Red')
axis.legend(loc='lower right',prop={'weight':'roman','size':'xx-large'})

plt.show()
```



```
In [338]: country_data[['Value_x','Value_y']].corr()
```

```
Out[338]:           Value_x   Value_y
          Value_x  1.000000  0.938328
          Value_y  0.938328  1.000000
```

Scatterplot and correlation value of 0.93 clearly shows there is strong relationship between the Health expenditure and GDP growth. Now lets verify these findings by analysing the data for similar developing economies.

```
In [339]: china_health_exp = data[mask2 & china_mask]
          china_gdp_data = data[mask4 & china_mask]
```

```
In [340]: china_health_exp.head()
```

```
Out[340]:         CountryName CountryCode                                IndicatorName  \
          2523681       China         CHN  Health expenditure per capita (current US$)
          2658654       China         CHN  Health expenditure per capita (current US$)
          2794260       China         CHN  Health expenditure per capita (current US$)
          2930954       China         CHN  Health expenditure per capita (current US$)
          3069199       China         CHN  Health expenditure per capita (current US$)

                  IndicatorCode  Year      Value
          2523681   SH.XPD.PCAP  1995  20.742711
          2658654   SH.XPD.PCAP  1996  25.975256
          2794260   SH.XPD.PCAP  1997  30.511171
          2930954   SH.XPD.PCAP  1998  34.926572
          3069199   SH.XPD.PCAP  1999  38.195679
```

```
In [341]: china_gdp_data.head()
```

```
Out[341]:        CountryName CountryCode                          IndicatorName  \
          7187         China         CHN  GDP per capita (constant 2005 US$)
          31484        China         CHN  GDP per capita (constant 2005 US$)
          58684        China         CHN  GDP per capita (constant 2005 US$)
          87069        China         CHN  GDP per capita (constant 2005 US$)
          115795       China         CHN  GDP per capita (constant 2005 US$)

                   IndicatorCode  Year       Value
          7187    NY.GDP.PCAP.KD  1960  121.191585
          31484   NY.GDP.PCAP.KD  1961   89.005585
          58684   NY.GDP.PCAP.KD  1962   83.334735
          87069   NY.GDP.PCAP.KD  1963   89.605409
          115795  NY.GDP.PCAP.KD  1964  103.571525
```

```
In [342]: china_data = pd.merge(china_health_exp, china_gdp_data[['IndicatorName','Year','Valu
```

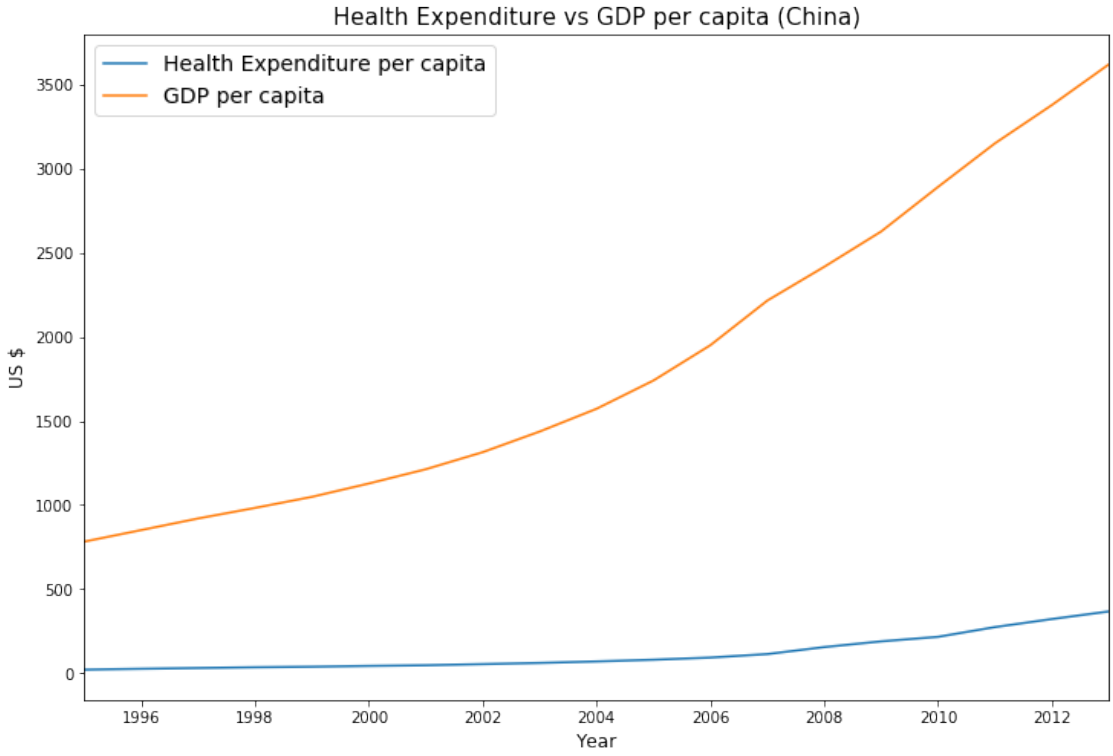
```
In [343]: china_data.head()
```

Out[343]:

	CountryName	CountryCode	IndicatorName_x	IndicatorCode	Year	Value_x	IndicatorName_y	Value_y
0	China	CHN	Health expenditure per capita (current US$)	SH.XPD.PCAP	1995	20.742711	GDP per capita (constant 2005 US$)	782.093690
1	China	CHN	Health expenditure per capita (current US$)	SH.XPD.PCAP	1996	25.975256	GDP per capita (constant 2005 US$)	850.750357
2	China	CHN	Health expenditure per capita (current US$)	SH.XPD.PCAP	1997	30.511171	GDP per capita (constant 2005 US$)	919.786248
3	China	CHN	Health expenditure per capita (current US$)	SH.XPD.PCAP	1998	34.926572	GDP per capita (constant 2005 US$)	982.548142
4	China	CHN	Health expenditure per capita (current US$)	SH.XPD.PCAP	1999	38.195679	GDP per capita (constant 2005 US$)	1048.284370

In [344]:
```
fig,ax = plt.subplots(figsize=(12,8))
line1, = ax.plot(china_data['Year'].values, china_data['Value_x'].values, label="Heal
line2, = ax.plot(china_data['Year'].values, china_data['Value_y'].values, label="GDP

ax.set_xlabel('Year', fontsize='12')
ax.set_ylabel('US $', fontsize='12')
ax.set_title('Health Expenditure vs GDP per capita (China)',fontsize='15')
ax.legend(handles=[line1, line2], loc='upper left', fontsize='14')
#ax.set_ylim([0,10])
ax.set_xlim([china_data['Year'].min(),china_data['Year'].max()])
plt.show()
```




```
In [345]: np.corrcoef(china_data['Value_x'], china_data['Value_y'])

Out[345]: array([[1.       , 0.9727291],
                 [0.9727291, 1.       ]])
```

With correlation value of 0.97 for China it confirms our previous findings that increase in Health expenditure inturn leads to economic growth.

Now that we know the importance of Health care, let explore it further to find the public contribution to health expenditure and what effects it will have on the Indian population?

```
In [347]: mask5 = data['IndicatorName'].str.contains('Health expenditure, public \(\% of total
          mask6 = data['IndicatorName'].str.contains('Poverty headcount ratio at national pove

          public_health_exp_data = data[mask1 & mask5]
          poverty_data = data[mask1 & mask6]

In [348]: public_health_exp_data.tail()

Out[348]:         CountryName CountryCode  \
          4746719       India         IND
          4929534       India         IND
          5111335       India         IND
          5287012       India         IND
          5453180       India         IND
```

```
                                                    IndicatorName IndicatorCode  \
4746719  Health expenditure, public (% of total health ...   SH.XPD.PUBL
4929534  Health expenditure, public (% of total health ...   SH.XPD.PUBL
5111335  Health expenditure, public (% of total health ...   SH.XPD.PUBL
5287012  Health expenditure, public (% of total health ...   SH.XPD.PUBL
5453180  Health expenditure, public (% of total health ...   SH.XPD.PUBL

         Year      Value
4746719  2009  30.034031
4929534  2010  30.195803
5111335  2011  29.826705
5287012  2012  30.455623
5453180  2013  32.215077
```

```
In [349]: public_health_exp_data.describe()
```

```
Out[349]:              Year      Value
count    19.000000  19.000000
mean   2004.000000  26.878575
std       5.627314   2.809142
min    1995.000000  21.912007
25%    1999.500000  24.691476
50%    2004.000000  26.682532
75%    2008.500000  29.390584
max    2013.000000  32.215077
```

```
In [350]: poverty_data.tail()
```

```
Out[350]:         CountryName CountryCode  \
2296334       India         IND
3860676       India         IND
4747049       India         IND
5111668       India         IND

                                                    IndicatorName IndicatorCode  \
2296334  Poverty headcount ratio at national poverty li...   SI.POV.NAHC
3860676  Poverty headcount ratio at national poverty li...   SI.POV.NAHC
4747049  Poverty headcount ratio at national poverty li...   SI.POV.NAHC
5111668  Poverty headcount ratio at national poverty li...   SI.POV.NAHC

         Year  Value
2296334  1993   45.3
3860676  2004   37.2
4747049  2009   29.8
5111668  2011   21.9
```