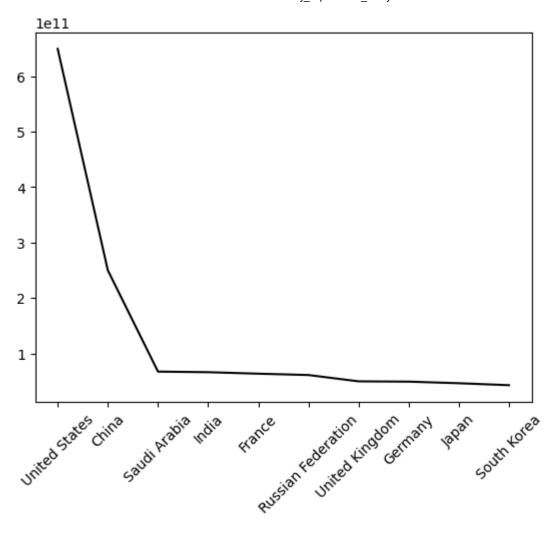
```
In [94]:
         import numpy as np # linear algebra
          import pandas as pd # data processing, CSV file I/O (e.g. pd.read csv)
          import matplotlib.pyplot as plt
          import seaborn as sns
          %matplotlib inline
          pd.options.display.float_format = '{:,}'.format
          import warnings
         warnings.filterwarnings('ignore')
         df = pd.read_csv('G:/Military Expenditure.csv', index_col =[0])
In [95]:
         df_with_index = pd.read_csv('G:/Military Expenditure.csv')
         df.isnull().sum()
In [96]:
         Code
                              0
Out[96]:
         Type
                              0
         Indicator Name
                              0
         1960
                            185
         1961
                            180
         2014
                             61
         2015
                             66
         2016
                             67
         2017
                             69
         2018
                             68
         Length: 62, dtype: int64
In [97]:
         df.info()
```

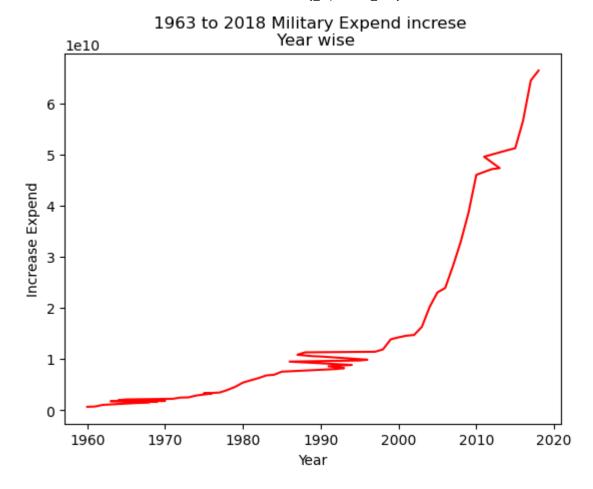
<class 'pandas.core.frame.DataFrame'>
Index: 264 entries, Aruba to Zimbabwe
Data columns (total 62 columns):

Data	columns (total		
#	Column	Non-Null Count	Dtype
0	Code	264 non-null	object
1	Type	264 non-null	object
2	Indicator Name	264 non-null	object
3	1960	79 non-null	float64
4	1961	84 non-null	float64
5	1962	93 non-null	float64
6	1963	98 non-null	float64
7	1964	98 non-null	float64
8	1965	104 non-null	float64
9			
	1966	104 non-null	float64
10	1967	105 non-null	float64
11	1968	113 non-null	float64
12	1969	113 non-null	float64
13	1970	121 non-null	float64
14	1971	122 non-null	float64
15	1972	123 non-null	float64
16	1973	130 non-null	float64
17	1974	128 non-null	float64
18	1975	128 non-null	float64
19	1976	132 non-null	float64
20	1977	137 non-null	float64
21	1978	136 non-null	float64
22	1979	138 non-null	float64
23	1980	140 non-null	float64
24	1981	143 non-null	float64
25	1982	137 non-null	float64
26	1983	136 non-null	float64
27	1984	142 non-null	float64
28	1985	147 non-null	float64
29	1986	143 non-null	float64
30	1987	147 non-null	float64
31	1988	145 non-null	float64
32	1989	154 non-null	float64
33	1990	158 non-null	float64
34	1991	160 non-null	float64
35	1992	167 non-null	float64
36	1993	185 non-null	float64
37	1994	187 non-null	float64
38	1995	184 non-null	float64
39	1996	186 non-null	float64
40	1997	187 non-null	float64
41	1998	182 non-null	float64
42	1999	184 non-null	float64
43	2000	189 non-null	float64
44	2001	190 non-null	float64
45	2002	193 non-null	float64
46	2003	199 non-null	float64
47	2004	199 non-null	float64
48	2005	201 non-null	float64
49	2006	197 non-null	float64
50	2007	195 non-null	float64
51	2008	201 non-null	float64
52	2009	197 non-null	float64
53	2010	196 non-null	float64
54	2011	194 non-null	float64
	-		

```
55
                2012
                                  199 non-null
                                                   float64
            56
                2013
                                  202 non-null
                                                   float64
            57
                2014
                                  203 non-null
                                                   float64
            58 2015
                                  198 non-null
                                                   float64
            59
                2016
                                  197 non-null
                                                   float64
            60 2017
                                  195 non-null
                                                   float64
            61 2018
                                  196 non-null
                                                   float64
           dtypes: float64(59), object(3)
           memory usage: 129.9+ KB
           df.shape
 In [98]:
           (264, 62)
Out[98]:
           graph_data = df[df['Type'] == 'Country'].sort_values(by='2018',ascending=False)[['2018'
 In [99]:
In [100]:
           graph_data
Out[100]:
                                       2018
                      Name
               United States 649,000,000,000.0
                             250,000,000,000.0
                       China
                 Saudi Arabia
                              67,554,666,667.0
                       India
                              66,510,289,108.0
                     France
                              63,799,676,593.0
           Russian Federation
                              61,387,546,980.0
             United Kingdom
                              49,997,192,521.0
                   Germany
                              49,470,627,811.0
                      Japan
                              46,617,954,864.0
                South Korea
                              43,069,973,343.0
           plt.plot(graph_data["2018"],c ='k')
In [101]:
           plt.xticks(rotation =45)
           ([0, 1, 2, 3, 4, 5, 6, 7, 8, 9],
Out[101]:
            [Text(0, 0, ''),
             Text(0, 0, '')])
```



```
df india = df with index[df with index["Name"] == "India"]
          df_ind =df_india.drop(["Indicator Name","Code", "Type"], axis =1)
In [103]:
          df ind graph =df ind.melt(id vars=["Name"],
In [104]:
                  var_name=["Date"],
                  value_name="Expend").sort_values(by = 'Expend',ascending = False)
In [105]:
          df_ind_graph["Date"] = pd.to_datetime(df_ind_graph["Date"])
          plt.plot(df_ind_graph['Date'],df_ind_graph['Expend'],c='r')
In [106]:
          plt.xlabel("Year")
          plt.ylabel("Increase Expend")
          plt.title("1963 to 2018 Military Expend increse \n Year wise")
          Text(0.5, 1.0, '1963 to 2018 Military Expend increse \n Year wise')
Out[106]:
```



## 

Out[107]: '\nconclusion \nMilitary expediture Budget increase little bit at 1963 due to india-chi na after that it was increase in 90s and after 2003\nit increase so fast.\n'