

PROBLEM 2

Part i)

In [1]:

Part ii)

In [2]:

Out[2]:

	gdp	energy
Austria	45451	30633
Belgium	62049	58894
Cyprus	2003	1211
Denmark	34540	27049
Finland	28388	26405
France	358675	233907
Greece	38039	20119
Iceland	1331	1124
Ireland	11788	11053
Italy	265863	192453
Malta	1251	456
Netherlands	82804	84416
Norway	27914	26086
Portugal	30642	12080
Spain	159602	88148
Sweden	59350	45132
Switzerland	42238	23234
Turkey	91946	32619
UK	279191	268056
WGermany	428888	352677

Part iii)

In [3]:

gdp
energy
Austria
Belgium
Cyprus

Denmark
Finland
France
Greece
Iceland
Ireland
Italy
Malta
Netherlands
Norway
Portugal
Spain
Sweden
Switzerland
Turkey
UK
WGermany

Part iv)

In [4]:

Out[4]:

Austria	45451
Belgium	62049
Cyprus	2003
Denmark	34540
Finland	28388
France	358675
Greece	38039
Iceland	1331
Ireland	11788
Italy	265863
Malta	1251
Netherlands	82804
Norway	27914
Portugal	30642
Spain	159602
Sweden	59350
Switzerland	42238
Turkey	91946
UK	279191
WGermany	428888

Name: gdp, dtype: int64

Part v)

In [5]:

Out[5]:

Austria	30633
Belgium	58894
Cyprus	1211
Denmark	27049
Finland	26405
France	233907
Greece	20119
Iceland	1124
Ireland	11053
Italy	192453
Malta	456
Netherlands	84416

```
Norway          26086
Portugal        12080
Spain           88148
Sweden          45132
Switzerland     23234
Turkey          32619
UK              268056
WGermany        352677
Name: energy, dtype: int64
```

Part vi)

In [6]:

```
Out[6]: count      20.000000
         mean    102597.650000
         std     127323.430086
         min      1251.000000
         25%     28269.500000
         50%     43844.500000
         75%    108860.000000
         max     428888.000000
         Name: gdp, dtype: float64
```

Part vii)

In [7]:

```
Out[7]: count      20.000000
         mean      76787.600000
         std     101511.706947
         min       456.000000
         25%     18109.250000
         50%     28841.000000
         75%     85349.000000
         max     352677.000000
         Name: energy, dtype: float64
```

Part viii)

In [8]:

```
Out[8]: gdp      127323.430086
         energy   101511.706947
         dtype: float64
```

Part ix)

In [9]:

```
Out[9]:
```

	gdp	energy
Sweden	59350	45132
Italy	265863	192453
Switzerland	42238	23234
Denmark	34540	27049

	gdp	energy
UK	279191	268056

Part x)

In [10]:

Out[10]:

	gdp	energy
UK	279191	268056
Italy	265863	192453
Sweden	59350	45132
Switzerland	42238	23234
Denmark	34540	27049

Part xi)

In [11]:

Out[11]:

	gdp	energy
Switzerland	42238	23234
Denmark	34540	27049
Sweden	59350	45132
Italy	265863	192453
UK	279191	268056

Part xii)

In [12]:

Out[12]: array([True, False, False, True, False, True, False, False, False,
False])

Part xiii)

In [13]:

76787.6

Out[13]:

	gdp	energy
France	358675	233907
Italy	265863	192453
Netherlands	82804	84416
Spain	159602	88148

	gdp	energy
UK	279191	268056
WGermany	428888	352677