```
In [ ]: import pandas as pd
        import numpy as np
        import seaborn as sns
In [ ]: data = pd.read csv('rice beef coffee price changes.csv')
        data.head()
Out[]:
            Year Month Price beef kilo Price rice kilo Price coffee kilo Inflation rate Price rice infl Price beef infl Price coffee infl
         0 1992
                     Feb
                                   2.52
                                                 0.28
                                                                  1.51
                                                                               89.59
                                                                                             0.53
                                                                                                            4.78
                                                                                                                            2.86
        1 1992
                                                 0.28
                                                                  1.55
                                                                              89.59
                                                                                                                            2.94
                    Mar
                                   2.45
                                                                                             0.53
                                                                                                            4.64
         2 1992
                                                                                                            4.51
                     Apr
                                   2.38
                                                 0.28
                                                                  1.45
                                                                               89.59
                                                                                             0.53
                                                                                                                            2.75
         3 1992
                    May
                                   2.38
                                                 0.27
                                                                  1.34
                                                                               89.59
                                                                                             0.51
                                                                                                                            2.54
                                                                                                            4.51
         4 1992
                                   2.33
                                                 0.27
                                                                  1.30
                                                                              89.59
                                                                                             0.51
                                                                                                            4.42
                                                                                                                            2.46
                     Jun
In [ ]: data.info()
       <class 'pandas.core.frame.DataFrame'>
       RangeIndex: 360 entries, 0 to 359
       Data columns (total 9 columns):
                               Non-Null Count Dtype
            Column
                                -----
        0
            Year
                                360 non-null
                                                int64
        1
            Month
                                360 non-null
                                                object
                                                float64
            Price beef kilo
                                360 non-null
                                                float64
                                360 non-null
        3
            Price rice kilo
            Price coffee kilo 360 non-null
                                                float64
            Inflation rate
                                347 non-null
                                                float64
            Price rice infl
                                347 non-null
                                                float64
            Price beef infl
                                                float64
                                347 non-null
            Price coffee infl 347 non-null
                                                float64
       dtypes: float64(7), int64(1), object(1)
       memory usage: 25.4+ KB
In [ ]: data.describe()
```

Out[]:		Year	Price_beef_kilo	Price_rice_kilo	Price_coffee_kilo	Inflation_rate	Price_rice_infl	Price_beef_infl	Price_coffee_infl
	count	360.000000	360.000000	360.000000	360.000000	347.000000	347.000000	347.000000	347.000000
	mean	2006.583333	3.152056	0.364083	2.999722	36.320029	0.476167	4.044006	3.953660
	std	8.671906	1.167673	0.131201	1.164001	27.062804	0.135525	0.900393	1.460999
	min	1992.000000	1.630000	0.160000	1.170000	-1.290000	0.240000	2.680000	1.770000
	25%	1999.000000	2.117500	0.260000	2.265000	12.370000	0.390000	3.185000	3.065000
	50%	2007.000000	2.730000	0.345000	2.940000	28.300000	0.460000	4.090000	3.680000
	75%	2014.000000	4.220000	0.440000	3.605000	59.700000	0.550000	4.735000	4.565000
	max	2022.000000	6.170000	0.910000	6.620000	89.590000	1.120000	6.930000	9.760000

```
In [ ]: data.isna().sum()
Out[]: Year
                              0
        Month
        Price_beef_kilo
        Price rice kilo
        Price coffee kilo
                              0
        Inflation_rate
                             13
        Price rice infl
                             13
        Price beef infl
                             13
        Price_coffee_infl
                             13
        dtype: int64
In [ ]: data['Month'].unique()
Out[]: array(['Feb', 'Mar', 'Apr', 'May', 'Jun', 'Jul', 'Aug', 'Sep', 'Oct',
                'Nov', 'Dec', 'Jan'], dtype=object)
```

Changing data type to categorical and encoding ordinal data

```
'Feb':2,
'Mar':3,
'Apr':4,
'May':5,
'Jun':6,
'Jul':7,
'Aug':8,
'Sep':9,
'Oct':10,
'Nov':11,
'Dec':12
},inplace=True)

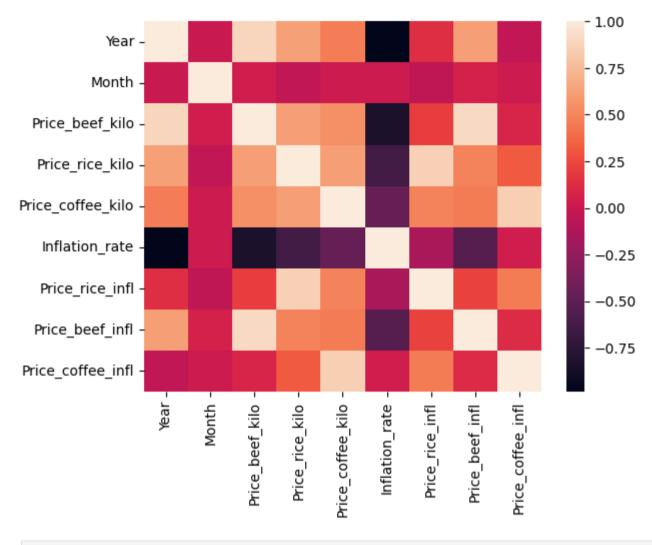
data['Month'] = data['Month'].astype('category')
```

Removing null data

```
In [ ]: data.dropna(axis=0,inplace=True)
In [ ]: data.info()
       <class 'pandas.core.frame.DataFrame'>
      Index: 347 entries, 0 to 358
      Data columns (total 9 columns):
            Column
                              Non-Null Count Dtype
                              -----
                                              ----
            Year
                              347 non-null
                                              int64
       1
                              347 non-null
                                              category
           Month
           Price beef kilo
                              347 non-null
                                              float64
           Price rice kilo
                              347 non-null
                                              float64
           Price coffee kilo 347 non-null
                                              float64
                                             float64
           Inflation rate
                              347 non-null
           Price rice infl
                                              float64
                              347 non-null
           Price_beef_infl
                                              float64
                              347 non-null
           Price coffee infl 347 non-null
                                              float64
       dtypes: category(1), float64(7), int64(1)
       memory usage: 25.1 KB
```

Scaling numerical data

```
In [ ]: from sklearn.preprocessing import StandardScaler
        scale = StandardScaler()
        x = data.drop(columns=['Year', 'Month'])
        x scaled = scale.fit transform(x)
        x scaled
Out[]: array([[-0.54613893, -0.64676398, -1.28083093, ..., 0.39779038,
                 0.81859465, -0.74965071],
               [-0.60575209, -0.64676398, -1.24662221, ..., 0.39779038,
                 0.66288249, -0.6948146],
               [-0.66536524, -0.64676398, -1.33214402, ..., 0.39779038,
                 0.51829263, -0.82505036],
                . . . ,
               [ 2.1620014 , 0.25606043, 1.96899813, ..., -0.63672015,
                 1.76398989, 0.88172356],
               [2.37490551, 0.25606043, 2.31108541, ..., -0.63672015,
                 2.03092502, 1.15590411],
               [2.37490551, 0.25606043, 2.48212904, ..., -0.63672015,
                 2.03092502, 1.28613987]])
In [ ]: sns.heatmap(data.corr())
Out[]: <Axes: >
```



In []: sns.pairplot(data=data, hue='Year')

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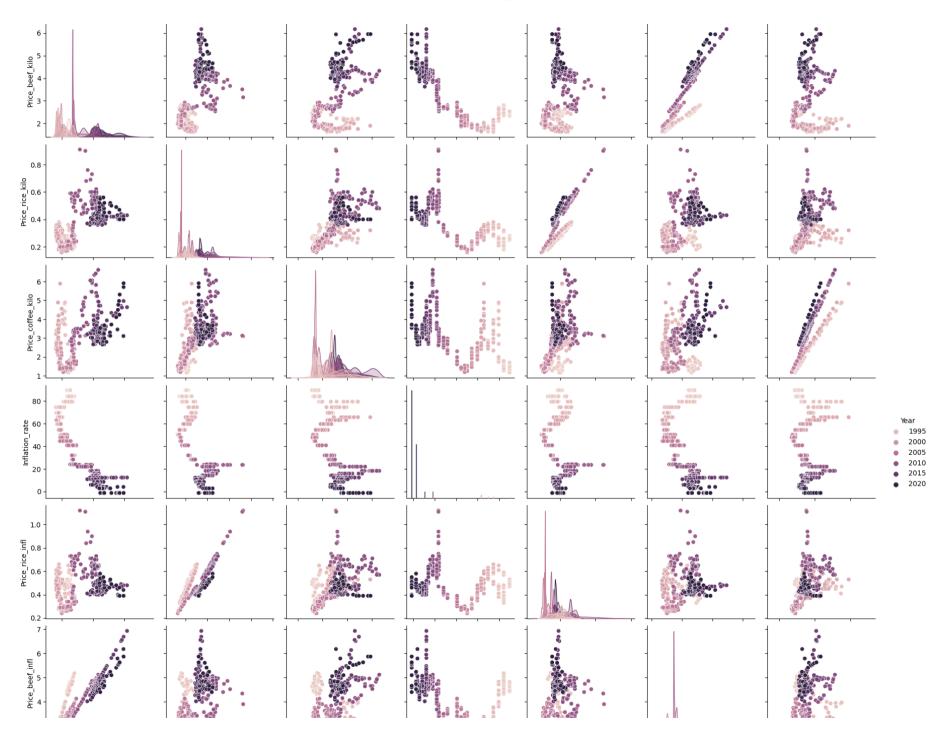
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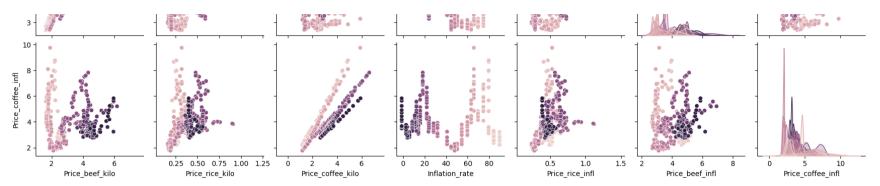
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Out[]: <seaborn.axisgrid.PairGrid at 0x236930da150>





In []: