```python
In [143]:  import pandas as pd
           import matplotlib.pyplot as plt
           import math
           df = pd.read_excel('argentina merged (5).xlsx')
```

```python
In [144]:  df
```

Out[144]:

	mes	monthly_inflation	exchange_rate	m2_ars	m2_usd
0	JAN-17	1.783333	15.9117	1.299645e+06	396330.171
1	FEB-17	1.883333	15.4550	1.261700e+06	394397.230
2	MAR-17	2.483333	15.3818	1.269281e+06	434442.536
3	APR-17	2.583333	15.4268	1.287428e+06	340429.913
4	MAY-17	1.600000	16.1420	1.291977e+06	328777.867
...	...	...	...	...	...
62	MAR-22	6.916667	110.9783	5.059882e+06	1508398.475
63	APR-22	6.033333	115.3117	5.312201e+06	1581482.568
64	MAY-22	5.183333	120.1617	5.763487e+06	1647853.011
65	JUN-22	5.200000	125.2150	6.230070e+06	1736077.897
66	JUL-22	7.383333	131.2267	6.472413e+06	1722943.233

67 rows × 5 columns

```python
In [152]:  df['monthly_inflation'] = df['monthly_inflation'].astype(float)
           df['exchange_rate'] = df['exchange_rate'].astype(float)
           df['m2_ars'] = df['m2_ars'].astype(float)
           df['m2_usd'] = df['m2_usd'].astype(float)
```

```python
In [163]:  ar_17= df.iloc[0:11].sum()
           ar_18= df.iloc[12:24].sum()
           ar_19= df.iloc[24:35].sum()
           ar_20= df.iloc[36:47].sum()
           ar_21= df.iloc[48:59].sum()
           ar_22= df.iloc[60:].sum()
           #Accumulative inflation
```

```python
In [164]:  ar_17
           #Accumulative inflation 2017
```

Out[164]:
```
mes                 JAN-17FEB-17MAR-17APR-17MAY-17JUN-17JUL-17AUG-...
monthly_inflation                                              19.15
exchange_rate                                               182.3249
m2_ars                                                   15028006.115
m2_usd                                                    4191407.869
dtype: object
```

```python
In [165]:  ar_18
           #Accumulative inflation 2018
```

Out[165]:
```
mes                 JAN-18FEB-18MAR-18APR-18MAY-18JUN-18JUL-18AUG-...
monthly_inflation                                          40.216667
exchange_rate                                               351.8026
m2_ars                                                    21234072.2
m2_usd                                                     7993041.19
dtype: object
```

```python
In [166]:  ar_19
           #Accumulative inflation 2019
```

Out[166]:
```
mes                 JAN-19FEB-19MAR-19APR-19MAY-19JUN-19JUL-19AUG-...
monthly_inflation                                          40.733333
exchange_rate                                               530.8074
m2_ars                                                    22506561.8
m2_usd                                                   11404675.014
dtype: object
```

```python
In [167]:  ar_20
           #Accumulative inflation 2020
```

Out[167]:
```
mes                 JAN-20FEB-20MAR-20APR-20MAY-20JUN-20JUL-20AUG-...
monthly_inflation                                              27.75
exchange_rate                                               775.1239
m2_ars                                                    41774312.0
m2_usd                                                   10487673.189
dtype: object
```

```python
In [168]:  ar_21
           #Accumulative inflation 2021
```

Out[168]:
```
mes                 JAN-21FEB-21MAR-21APR-21MAY-21JUN-21JUL-21AUG-...
monthly_inflation                                          37.983333
exchange_rate                                              1046.8934
m2_ars                                                    56431015.0
m2_usd                                                   14296389.948
dtype: object
```

```python
In [169]:  ar_22
           #Accumulative inflation 2022 (until July)
```

Out[169]:
```
mes                 JAN-22FEB-22MAR-22APR-22MAY-22JUN-22JUL-22
monthly_inflation                                  39.416667
exchange_rate                                         815.3501
m2_ars                                           39190142.127957
m2_usd                                              11102708.561
dtype: object
```

```python
In [178]:  df.plot( 'mes' , 'monthly_inflation' )
           plt.title("Monthly Inflation in Argentina")
```

Out[178]: Text(0.5, 1.0, 'Monthly Inflation in Argentina')


```python
In [180]:  df.plot( 'mes' , 'exchange_rate' )
           plt.title("ARS vs USD")
```

Out[180]: Text(0.5, 1.0, 'ARS vs USD')


```python
In [181]:  df.plot( 'mes' , 'm2_ars' )
           plt.title("Money Supply in Argentina (Argentinian Pesos)")
```

Out[181]: Text(0.5, 1.0, 'Money Supply in Argentina (Argentinian Pesos)')


```python
In [182]:  df.plot( 'mes' , 'm2_usd' )
           plt.title("Money Supply in Argentina (USD)")
```

Out[182]: Text(0.5, 1.0, 'Money Supply in Argentina (USD)')


```python
In [ ]:
```