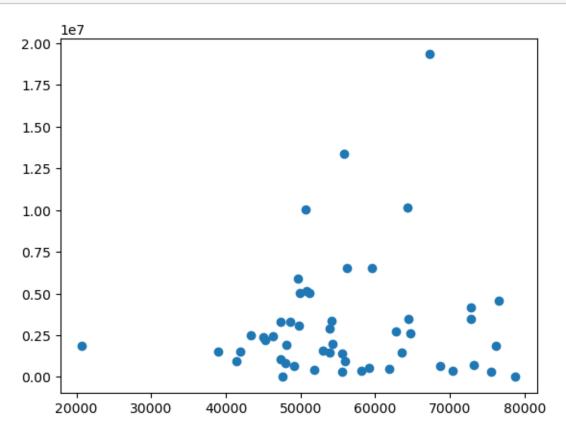
Visualizing

April 12, 2023

```
[47]:
      import numpy as np
      import pandas as pd
      import matplotlib.pyplot as plt
[48]: df = pd.read_csv("Refined_Data.csv")
      df.dtypes
[48]: Unnamed: 0
                       int64
      State
                      object
      TotalPop
                       int64
      Hispanic
                    float64
      White
                    float64
      Black
                    float64
      Native
                    float64
      Asian
                    float64
      Pacific
                    float64
      Income
                    float64
      males
                       int64
      females
                       int64
      dtype: object
[49]: df.head()
[49]:
         Unnamed: 0
                           State
                                  TotalPop
                                             Hispanic
                                                            White
                                                                        Black \
      0
                  0
                                              3.751616
                                                        61.878656
                                                                   31.252976
                         Alabama
                                   4830620
      1
                  1
                          Alaska
                                    733375
                                              5.909581
                                                        60.910180
                                                                    2.848503
      2
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                         Arizona
                                   6641928
                                            29.565921
                                                        57.120000
                                                                     3.850987
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                  3
                        Arkansas
                                   2958208
                                              6.215474
                                                                    18.968759
      4
                     California 38421464
                                                        40.215789
                                            37.291875
                                                                     5.677396
            Native
                         Asian
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                                                 Income
                                                            males
                                                                    females
          0.453231
                      1.050255
                                0.034354
                                          43296.358603
      0
                                                          2341093
                                                                    2489527
      1
        16.391018
                      5.450299
                                1.058683
                                          70354.743902
                                                           384160
                                                                      349215
      2
          4.355066
                      2.876579
                                0.167632
                                          54207.820955
                                                          3299088
                                                                     3342840
      3
          0.522920
                      1.142336
                                0.146861
                                          41935.633968
                                                          1451913
                                                                     1506295
          0.405292
                    13.052234
                                0.351410
                                          67264.782303
                                                         19087135
                                                                    19334329
```

```
[50]: plt.scatter(df["Income"],df["females"])
plt.show()
```



```
[15]: # I already handled NULL Values so no error ;). I replaced those values with O_{\sqcup}
       ⇒in that data. Now replaceing it
      # with what makes sense
[55]: df['females'] = df['females'].mask(df['females'] == 0, df['TotalPop'] -__

df['males'])
[56]: df
[56]:
          Unnamed: 0
                                     State
                                            TotalPop
                                                        Hispanic
                                                                      White
      0
                   0
                                   Alabama
                                              4830620
                                                        3.751616
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                                                        6.215474 71.137810
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                                              3593222
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      7
                                              926454
                                  Delaware
                                                        8.824766 64.632710
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                                                                 64.597651
                                                      2.832683
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                          North Dakota
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                                                     10.079904
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                                          12779559
                                                      6.128014
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                                                     98.893574
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                                           1053661
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                                                                 74.325417
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                        South Carolina
                                           4777576
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                                          26538614
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                                                           Income
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1
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                16.391018
                              5.450299
                                         1.058683
                                                    70354.743902
                                                                      384160
```

2	3.850987	4.355066	2.876579	0.167632	54207.820955	3299088
3	18.968759	0.522920	1.142336	0.146861	41935.633968	1451913
4	5.677396	0.405292	13.052234	0.351410	67264.782303	19087135
5	3.546377	0.573833	2.661997	NaN	64657.801787	2648667
6	10.348068	0.126208	4.021981	0.018599	76146.560588	1751607
7	20.743925	0.259813	3.268692	NaN	61827.976636	448413
8	51.776536	0.200559	3.383240	0.029609	75466.363636	306674
9	15.165676	0.210451	2.283174	0.051510	50690.194987	9600009
10	32.088298	0.187583	3.097649	0.046602	50811.082051	4883331
11	2.052848	0.144937	36.592089	8.758861	73264.426282	709871
12	0.566779	1.468121	1.135906	0.127181	48017.315436	810464
13	17.108411	0.118427	4.475377	0.020032	59587.048875	6316899
14	11.186977	0.194086	1.578272	0.032625	48616.227848	3235263
15	3.256987	0.289793	1.699392	0.055164	53017.753041	1534595
16	6.567895	0.733947	2.331053	NaN	53885.612648	1439862
17	8.272317	0.166637	1.129847	0.046438	45285.802536	2164208
18	36.326241	0.484309	1.669060	0.039184	44957.993761	2261156
19	1.134473	0.788319	0.965812	0.015670	49181.974359	650081
20	30.677754	0.203096	5.325414	0.036285	78765.400725	2872643
21	6.833128	0.128279	5.835656	0.019809	72838.936726	3249650
22	17.633103	0.484411	2.423110	0.019549	51201.830037	4861973
23	5.659820	1.069040	4.156072	0.032909	62820.833959	2692166
24	41.491945	0.389970	0.876444	0.015046	38909.919207	1451723
25	14.122118	0.363329	1.624496	0.101657	49763.987726	2964003
26	0.429259	7.060741	0.570370	0.072222	47645.682836	510163
27	4.956203	0.864474	1.859023	0.057143	55916.469697	929606
28	7.739617	1.087187	7.095729	0.574521	55526.525074	1407735
29	1.227740	0.142808	2.191438	0.016096	68728.859589	653484
30	14.387862	0.115335	8.159990	0.031319	76581.083417	4343027
31	1.755020	9.248594	1.234337	0.042771	47329.967871	1032414
32	15.668046	0.321639	7.897159	0.023451	64290.749113	9541801
33	21.395117	1.085491	2.317457	0.052326	49937.464137	4795408
34	1.284390	5.651220	0.961951	NaN	58188.112195	367963
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37	1.730788	1.000242	3.594909	0.345333	54271.901818	1948453
38	11.633948	0.119269	2.797751	0.019394	56170.464510 20720.538286	6245344
39	0.092559	0.002818	0.075197 3.247500	0.001240	59125.270833	1713860
40 41	5.682917 28.750916	0.346250 0.292399	1.249176	0.035833 0.046978	46296.807763	510388 2322409
42	1.423874	9.417568	1.019369	0.040978	51805.405405	423477
43	18.283817	0.226635	1.407283	0.041092	47328.083617	3167756
44	11.650048	0.261144	3.669696	0.043130	55874.522601	13171316
45	1.017949	1.081368	2.196068	0.825983	63488.917808	1459229
46	0.980874	0.301639	1.238798	0.030601	55602.967213	308573
47	20.175998	0.212453	5.455242	0.064715	72866.013412	4060948
48	3.384429	1.410727	7.022007	0.609896	64493.767684	3487725
10	0.004423	1.110121	1.022001	3.00000	54400.101004	0401120

```
      49
      3.662810
      0.152686
      0.682438
      0.026446
      41437.111570
      913631

      50
      8.195187
      0.953664
      2.404239
      0.020833
      53898.889209
      2851385
```

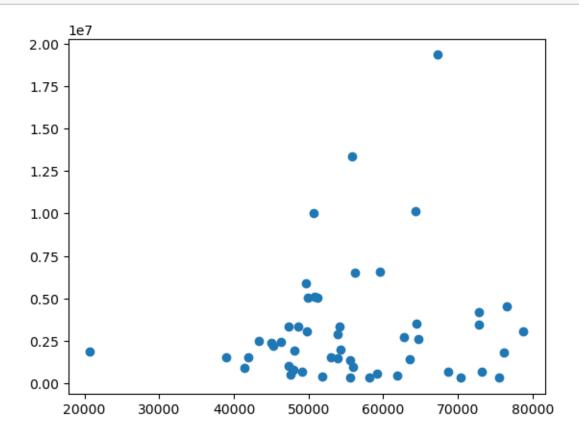
females

- 0 2489527
- 1 349215
- 2 3342840
- 3 1506295
- 4 19334329
- 5 2630239
- 6 1841615
- 7 478041
- 8 340810
- 9 10045763
- 10 5123362
- 11 696428
- 12 806083
- 13 6556862
- 14 3333382
- 15 1558931
- 16 1453125
- 17 2233145
- 18 2364097
- 19 679019
- 20 3057895
- 21 3455936
- 22 5038598
- 23 2727005
- 24 1536358
- 25 3081445
- 26 504536
- 27 939759
- 28 1390901
- 29 670717
- 30 4561386
- 31 1051703
- 32 10131373
- 33 5049925
- 34 353677
- 35 5913084
- 36 1942789
- 37 1990780
- 38 6534215
- 39 1869213
- 40 54327341 2455167
- 42 419713

```
43
     3331859
44
    13367298
45
     1444150
46
      318031
47
     4195682
48
     3497739
49
      937789
50
     2890732
```

[15]: # All females Column Filled

[57]: plt.scatter(df["Income"],df["females"]) plt.show()



df.head() [58]: Unnamed: 0 [58]: State TotalPop Hispanic White Black \ 0 0 Alabama 4830620 3.751616 61.878656 31.252976 1 1 Alaska 733375 5.909581 60.910180 2.848503 2 2 Arizona 6641928 29.565921 57.120000 3.850987 3 3 Arkansas 2958208 6.215474 71.137810 18.968759

```
4
                  4 California 38421464 37.291875 40.215789
                                                                   5.677396
            Native
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                                                Income
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          0.453231
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        16.391018
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                                          41935.633968
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                                                                   1506295
      4
          0.405292
                    13.052234
                               0.351410
                                          67264.782303
                                                        19087135
                                                                  19334329
[59]: df.isnull().sum()
[59]: Unnamed: 0
                    0
      State
                    0
      TotalPop
                    0
      Hispanic
                    0
      White
                    0
      Black
                    0
      Native
                    0
      Asian
                    0
      Pacific
      Income
                    0
      males
      females
                    0
      dtype: int64
[60]: df['Pacific'].fillna(100 - (df['Hispanic'] + df['White'] + df['Black'] +

df['Native'] + df['Asian']), inplace=True)
[61]: df
[61]:
          Unnamed: 0
                                     State
                                             TotalPop
                                                        Hispanic
                                                                       White \
      0
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                                   Alabama
                                              4830620
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        Black
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                                 Asian
                                          Pacific
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1
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10	32.088298	0.187583	3.097649	0.046602	50811.082051	4883331
11	2.052848	0.144937	36.592089	8.758861	73264.426282	709871
12	0.566779	1.468121	1.135906	0.127181	48017.315436	810464
13	17.108411	0.118427	4.475377	0.020032	59587.048875	6316899
14	11.186977	0.194086	1.578272	0.032625	48616.227848	3235263
15	3.256987	0.289793	1.699392	0.055164	53017.753041	1534595
16	6.567895	0.733947	2.331053	2.764474	53885.612648	1439862
17	8.272317	0.166637	1.129847	0.046438	45285.802536	2164208
18	36.326241	0.484309	1.669060	0.039184	44957.993761	2261156
19	1.134473	0.788319	0.965812	0.015670	49181.974359	650081
20	30.677754	0.203096	5.325414	0.036285	78765.400725	2872643
21	6.833128	0.128279	5.835656	0.019809	72838.936726	3249650
22	17.633103	0.484411	2.423110	0.019549	51201.830037	4861973
23	5.659820	1.069040	4.156072	0.032909	62820.833959	2692166
24	41.491945	0.389970	0.876444	0.015046	38909.919207	1451723
25	14.122118	0.363329	1.624496	0.101657	49763.987726	2964003
26	0.429259	7.060741	0.570370	0.072222	47645.682836	510163
27	4.956203	0.864474	1.859023	0.057143	55916.469697	929606
28	7.739617	1.087187	7.095729	0.574521	55526.525074	1407735
29	1.227740	0.142808	2.191438	0.016096	68728.859589	653484
30	14.387862	0.115335	8.159990	0.031319	76581.083417	4343027
31	1.755020	9.248594	1.234337	0.042771	47329.967871	1032414
32	15.668046	0.321639	7.897159	0.023451	64290.749113	9541801
33	21.395117	1.085491	2.317457	0.052326	49937.464137	4795408
34	1.284390	5.651220	0.961951	1.821463	58188.112195	367963
35	16.207276	0.168888	1.621081	0.022645	49655.248466	5662893
36	8.314737	6.716842	1.801148	0.106220	48100.854267	1906944
37	1.730788	1.000242	3.594909	0.345333	54271.901818	1948453
38	11.633948	0.119269	2.797751	0.019394	56170.464510	6245344
39	0.092559	0.002818	0.075197	0.001240	20720.538286	1713860
40	5.682917	0.346250	3.247500	0.035833	59125.270833	510388
41	28.750916	0.292399	1.249176	0.046978	46296.807763	2322409
42	1.423874	9.417568	1.019369	0.041892	51805.405405	423477
43	18.283817	0.226635	1.407283	0.043156	47328.083617	3167756
44	11.650048	0.261144	3.669696	0.068816	55874.522601	13171316
45	1.017949	1.081368	2.196068	0.825983	63488.917808	1459229
46	0.980874	0.301639	1.238798	0.030601	55602.967213	308573
47	20.175998	0.212453	5.455242	0.064715	72866.013412	4060948
48	3.384429	1.410727	7.022007	0.609896	64493.767684	3487725
49	3.662810	0.152686	0.682438	0.026446	41437.111570	913631
50	8.195187	0.953664	2.404239	0.020833	53898.889209	2851385

females

- 0 2489527
- 1 349215
- 2 3342840
- 3 1506295

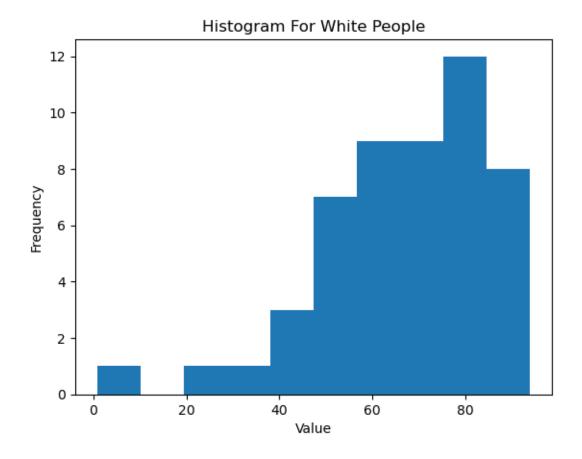
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- 13 6556862
- 14 3333382
- 15 1558931
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- 17 2233145
- 18 2364097
- 19 679019
- 20 3057895
- 21 3455936
- 00 5000500
- 22 5038598
- 23 2727005
- 24 1536358
- 25 3081445
- 26 504536
- 27 939759
- 28 1390901
- 29 670717
- 30 4561386
- 31 1051703
- 32 10131373
- 33 5049925
- 34 353677
- 35 5913084
- 36 1942789
- 37 1990780
- 38 6534215
- 39 1869213
- 40 543273
- 41 2455167
- 42 419713
- 43 3331859
- 44 13367298
- 45 1444150
- 46 318031
- 47 4195682
- 48 3497739
- 49 937789
- 50 2890732

```
[62]: df.to_csv("FinalData.csv")

[63]: df['White'].plot.hist(bins=10)

plt.title('Histogram For White People')
plt.xlabel('Value')
plt.ylabel('Frequency')
plt.show
```

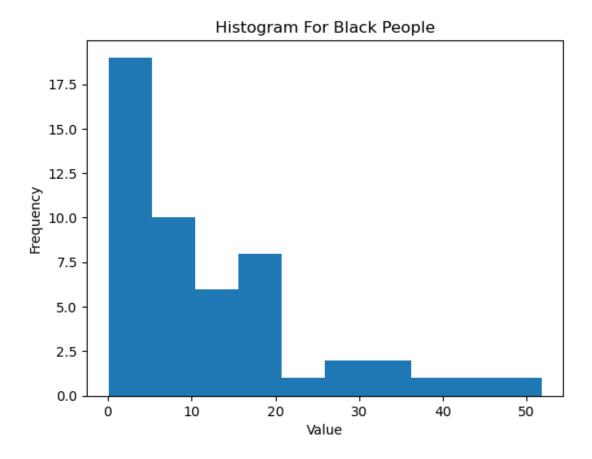
[63]: <function matplotlib.pyplot.show(close=None, block=None)>



```
[64]: df['Black'].plot.hist(bins=10)

plt.title('Histogram For Black People')
plt.xlabel('Value')
plt.ylabel('Frequency')
plt.show
```

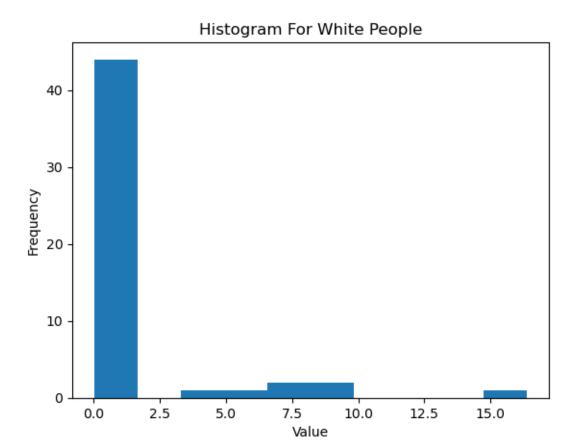
[64]: <function matplotlib.pyplot.show(close=None, block=None)>



```
[65]: df['Native'].plot.hist(bins=10)

plt.title('Histogram For White People')
plt.xlabel('Value')
plt.ylabel('Frequency')
plt.show
```

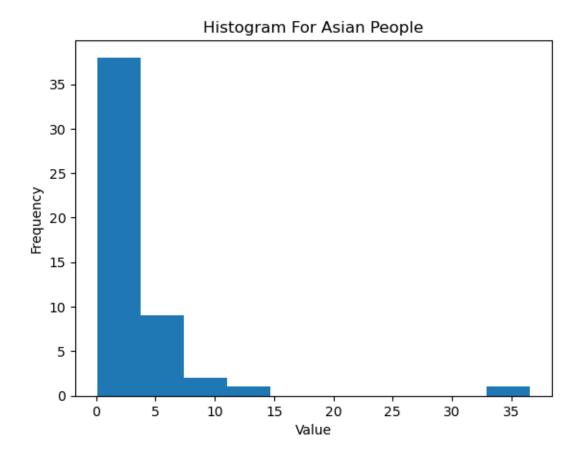
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```
[44]: df['Asian'].plot.hist(bins=10)

plt.title('Histogram For Asian People')
plt.xlabel('Value')
plt.ylabel('Frequency')
plt.show
```

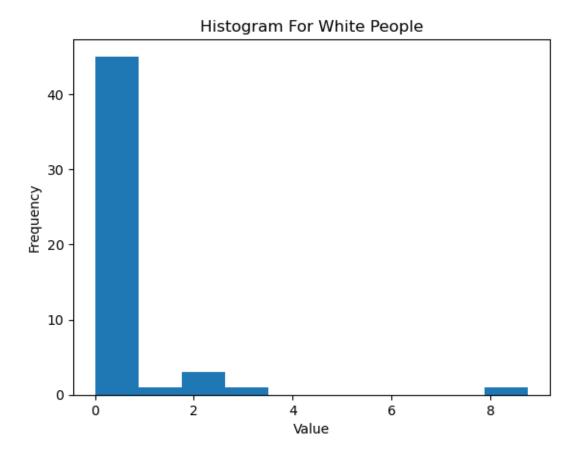
[44]: <function matplotlib.pyplot.show(close=None, block=None)>



```
[45]: df['Pacific'].plot.hist(bins=10)

plt.title('Histogram For White People')
plt.xlabel('Value')
plt.ylabel('Frequency')
plt.show
```

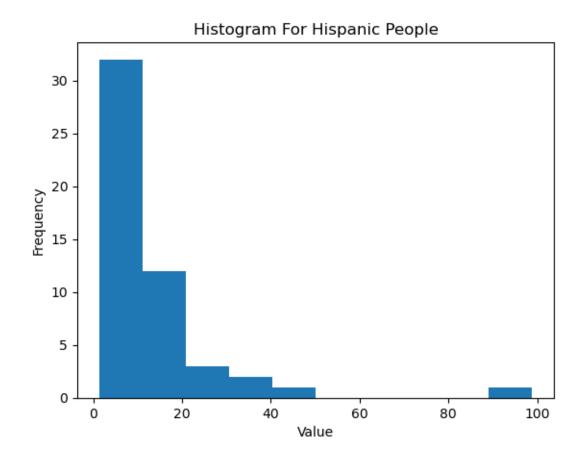
[45]: <function matplotlib.pyplot.show(close=None, block=None)>



```
[46]: df['Hispanic'].plot.hist(bins=10)

plt.title('Histogram For Hispanic People')
plt.xlabel('Value')
plt.ylabel('Frequency')
plt.show
```

[46]: <function matplotlib.pyplot.show(close=None, block=None)>



[]: