df['voting eligibility'] = ['eligible' if age > 18 else 'not eligible' for

## Out[2]:

	name	age	voting eligibility
0	anu	20	eligible
1	neenu	21	eligible
2	vinu	14	not eligible
3	sanu	13	not eliaible

df=pd.DataFrame(data)

```
100
0
1
        200
2
     python
3
     300.12
        400
4
dtype: object
0
        100
1
        200
2
     python
3
     300.12
4
         400
      hello
dtype: object
```

C:\Users\Dell\AppData\Local\Temp\ipykernel\_7496\2701252432.py:4: FutureWa rning: The series.append method is deprecated and will be removed from pandas in a future version. Use pandas.concat instead.

new\_data=original\_data.append(data)

## Out[11]:

	Class	Age	Name	
0	7	12	Sivani	
1	6	13	Fahma	
2	8	14	Shahana	
3	9	15	Hadhiya	

city
California 8
Georgia 4
Los Angeles 8

Name: people, dtype: int64

}) df

## Out[19]:

	First	Second	Add	Sub	Mul	Div
0	1	5	6	<b>-</b> 4	5	0.200000
1	2	6	8	-4	12	0.333333
2	3	7	10	<b>-</b> 4	21	0.428571
3	4	8	12	-4	32	0.500000

```
N s1=pd.Series([5,7,3,9,1])
In [22]:
             s2=pd.Series(sorted(s1.values))
             print(s2)
             0
                  1
             1
                   3
             2
                   5
             3
                   7
                  9
             dtype: int64
          ▶ data={'name': ['Asha', 'Radha', 'Kamal', 'Divy', 'Anjali'],
In [29]:
                    'height': [ 5.5, 5, np.nan, 5.9, np.nan],
                    'age': [11, 23, 22, 33, 22]}
             df=pd.DataFrame(data)
             row=df[df['height'].isna()]
             row
   Out[29]:
                 name height age
              2 Kamal
                         NaN
                               22
              4 Anjali
                              22
                        NaN
          data = {'Manasvi': ['Physics', 'Chemistry', 'English', 'Maths', 'Computer'
In [31]:
                      'marks': [ 89,99,97,99,98],}
             df=pd.DataFrame(data)
             sum =df['marks'].sum()
             print(sum )
             482
             data={'Name':['Sivani','Fahma','Shahana'],
In [36]:
                    'Roll num':[33,34,35],
                    'English':np.random.randint(50,100,size=3),
                    'Malayalam':np.random.randint(50,100,size=3),
                    'Hindi':np.random.randint(50,100,size=3),
                    'Maths':np.random.randint(50,100,size=3),
                    'Science':np.random.randint(50,100,size=3)}
             df=pd.DataFrame(data)
             df['Percentage'] = df[['English','Malayalam','Hindi','Maths','Science']].me
             df
   Out[36]:
                   Name Roll num English Malayalam Hindi Maths Science Percentage
                                      97
                                                                            72.4
              0
                   Sivani
                              33
                                               68
                                                     54
                                                           74
                                                                   69
                  Fahma
                                               92
                                                     51
                                                                   80
                                                                            68.6
              1
                              34
                                      63
                                                           57
```

2 Shahana

35

81

55

58

51

52

59.4

In []: **M**