



```
# Count Values in Pandas Dataframe
In [1]: # importing libraries
         import numpy as np
import pandas as pd
         C:\Users\Abhishek\AppData\Local\Temp\ipykernel_50544\657959902.py:3: DeprecationWarning:
         Pyarrow will become a required dependency of pandas in the next major release of pandas (pandas 3.0), (to allow more performant data types, such as the Arrow string type, and better interoperability with other libraries) but was not found to be installed on your system. If this would cause problems for you, please provide us feedback at https://github.com/pandas-dev/pandas/issues/54466
           import pandas as pd
In [2]: # Creating dataframe with
          # some missing values
         import numpy as np
        import pandas as pd
         print(dataframe.count())
print (dataframe)
         Name
          Physics
         Chemistry
         Math
         dtype: int64
         Name Physics Chemistry Math
0 Shobhit 11.0 10.0 13.0
1 Vaibhav 12.0 14.0 10.0
         2 Vimal
3 Sourabh
                         13.0
14.0
                                       NaN 15.0
18.0 NaN
                                      18.0
              Rahul
                           NaN
                                      20.0
                                             NaN
         5 Shobhit
In [3]: dataframe.count()
Out[3]: Name
         Physics
Chemistry
         Math
         dtype: int64
In [4]: print(dataframe.count(axis = 1))
         print(dataframe.count(axis = 'columns'))
         0
         dtype: int64
         dtype: int64
In [5]: print(dataframe.isnull().sum())
         Physics 1
Chemistry 1
Math 2
dtype: int64
Total Null values count: 4
dataframe[dataframe['Physics']>11]
         Count of students with physics marks greater than 11 is-> 3
Out[6]:
               Name Physics Chemistry Math
          1 Vaibhav 12.0 14.0 10.0
          3 Sourabh 14.0 18.0 NaN
# dataframe of above result
dataframe[(dataframe['Physics'] > 10 ) &
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(dataframe['Chemistry'] > 11 ) &
(dataframe['Math'] > 9 )]
                         Count of students -> 1
Out[7]:
                                     Name Physics Chemistry Math
                          1 Vaibhav 12.0 14.0 10.0
In [8]:
                         # importing Libraries
                         import pandas as pd
                       print("Created Dataframe")
                         print(dataframe)
                        # finding Count of all columns
print("count of all values wrt columns")
print(dataframe.count())
                        # Count according to rows
print("Count of all values wrt rows")
print(dataframe.count(axis=1))
print(dataframe.count(axis='columns'))
                       # count of null values
print("Null Values counts ")
print(dataframe.isnull().sum())
print("Total null values",
                                          dataframe.isnull().sum().sum())
                         # count of student with greater
                        # than 11 marks in physics
print("Count of students with physics marks greater than 11 is->",
                                          dataframe[dataframe['Physics'] > 11]['Name'].count())
                         # resultant of above dataframe
                        Created Dataframe
                         Name Physics Chemistry Math
0 Shobhit 11.0 10.0 13.0
1 Vaibhav 12.0 14.0 10.0
                                                                                        10.0 13.0
14.0 10.0
                                                                   13.0
14.0
                                                                                                      NaN 15.0
18.0 NaN
                                     Vimal
                                Sourabh
                                     Rahul
                                                                                                                       NaN
                                                                     NaN
                                                                                                    20.0
                         5 Shobhit
                         5 Shobhit 11.0 10.0
Count of all values wrt columns
                                                                                                     10.0 13.0
                         Name
                         Physics
Chemistry
                         Math
                         dtype: int64
                         Count of all values wrt rows
                         dtype: int64
                         dtype: int64
                         Null Values counts
                         Physics
                         Chemistry
Math
                         Math 2
dtype: int64
Total null values 4
Count of students with physics marks greater than 11 is-> 3
                         | Name | Physics | Chemistry | Math | 1 | Vaibhav | 12.0 | 14.0 | 10.0 | 2 | Vimal | 13.0 | NaN | 15.0 | NaN | 2 | Sourabh | 14.0 | 18.0 | NaN |
                         3 Sourabh 14.0
Count of students -> 1
                         Name Physics Chemistry Math
1 Vaibhav 12.0 14.0 10.0
```