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SKILL-1

```
    import pandas as pd

In [1]:
             import numpy as np
In [2]: ▶ #1. Use series method to convert the following list ['a','b','c','d']
             list=['a','b','c','d']
             series=pd.Series(list)
             print(series)
             0
                  а
             1
                  b
             2
                  c
             3
                  d
             dtype: object
In [3]:  d=['radha','krishna','kowshik','sudheer','chandu','ashok']
             m = [[67,89,68,95], [87,94,97,76], [77,85,99,74], [90,89,92,78], [83,97,80,98], [90,90,80,87]]
             s=['DS','AI','MPII','CNS']
In [14]:
          #2. Create data frames which club them all using pandas
             df=pd.DataFrame(data=m,index=d,columns=s)
   Out[14]:
                      DS AI MPII CNS
                radha
                      67 89
                               68
                                    95
               krishna
                      87 94
                               97
                                    76
              kowshik
                     77 85
                               99
                                    74
              sudheer
                      90 89
                               92
                                    78
                      83 97
               chandu
                               80
                                    98
                ashok 90 90
                               80
                                    87
```

```
In [15]: ▶ #3. Add the TS , total columns to the data frame from which TS is the sum of DS,AI,MPII and t
           df['TS']=df['DS']+df['AI']+df['MPII']
           df['TOTAL']=df['DS']+df['AI']+df['MPII']+df['CNS']+df['TS']
   Out[15]:
                   DS AI MPII CNS TS TOTAL
              radha
                   67 89
                               95
                                  224
                                        543
                           68
             krishna
                               76 278
                                        632
                   87 94
                           97
            kowshik
                   77 85
                           99
                               74 261
                                        596
            sudheer
                   90 89
                           92
                               78 271
                                        620
             chandu
                   83 97
                           80
                               98 260
                                        618
              ashok 90 90
                           80
                               87 260
                                        607
In [8]: № #4. Display only the marks scored by Name 2 and Name3
           df.loc[['krishna','kowshik']]
    Out[8]:
                   DS AI MPII CNS TS TOTAL
             krishna
                   87
                      94
                               76
                                  278
                                        632
            kowshik 77 85
                               74 261
                           99
                                        596
         ▶ #5. Display all the students marks who scored 90 + marks in DS
In [9]:
            df[df['DS']>90]
    Out[9]:
             DS AI MPII CNS TS TOTAL
         In [10]:
           sum(df['DS'])
```

Out[10]: 494

Out[16]:

	flow rate(lit/min;//	speed	capacity	voltage	current	temprature	capacity in watt	performance
0	40	1400	0.5	120	3.104167	10	372.5	0
1	80	2800	1.0	240	3.104167	20	745.0	0
2	40	1400	0.5	120	3.104167	10	372.5	0
3	160	5600	2.0	480	3.104167	40	1490.0	1
4	40	1400	0.5	120	3.104167	10	372.5	0
194	80	2800	1.0	240	3.104167	20	745.0	0
195	40	1400	0.5	120	3.104167	10	372.5	0
196	80	2800	1.0	240	3.104167	20	745.0	0
197	160	5600	2.0	480	3.104167	40	1490.0	1
198	80	2800	1.0	240	3.104167	20	745.0	0

199 rows × 8 columns