```
import pandas as pd
import numpy as np
            Assignment-1
        AI and ML on pyhton
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# Task 1
Row1=[]
Row2=[]
Row3=[]
Row4=[]
for i in range(4):
 Row1.append(np.random.randint(0,10))
 Row2.append(np.random.randint(0,10))
 Row3.append(np.random.randint(0,10))
  Row4.append(np.random.randint(0,10))
df=pd.DataFrame([Row1,Row2,Row3,Row4])
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                      \blacksquare
         0 1 2 3
      0 8 8 8 0
      1 3 5 4 6
      2 6 8 0 7
      3 6 4 0 9
df.columns=['Random value 1','Random value 2','Random value 3','Random value 4']
df
                                                                            \blacksquare
         Random value 1 Random value 2 Random value 3 Random value 4
                      8
                                                                       0
      0
                                       8
                                                       8
                      3
                                       5
                                                                       6
      1
                                                       4
                                                                       7
      2
                      6
                                       8
                                                       0
      3
                      6
                                                       0
                                                                       9
                                       4
# Task 3
df.describe() # Descriptive statistics
             Random value 1 Random value 2 Random value 3 Random value 4
                                                                                丽
      count
                   4.000000
                                    4.000000
                                                    4.000000
                                                                     4.000000
                   5.750000
                                    6.250000
                                                    3.000000
                                                                     5.500000
      mean
                   2.061553
                                    2.061553
                                                    3.829708
                                                                     3.872983
       std
       min
                   3.000000
                                    4.000000
                                                    0.000000
                                                                     0.000000
      25%
                   5.250000
                                    4.750000
                                                    0.000000
                                                                     4.500000
       50%
                   6.000000
                                    6.500000
                                                    2.000000
                                                                     6.500000
      75%
                   6.500000
                                    8.000000
                                                    5.000000
                                                                     7.500000
                   8.000000
                                    8.000000
                                                    8.000000
                                                                     9.000000
      max
# Task 4
df.isnull().any() # checking is there any null values in our dataset
     Random value 1
                       False
     Random value 2
                       False
     Random value 3
                       False
     Random value 4
                       False
     dtype: bool
df.info() # Datatypes of columns
```

<class 'pandas.core.frame.DataFrame'> RangeIndex: 4 entries, 0 to 3
Data columns (total 4 columns):

Data	COTUMNIS (COCA	Τ.	4 COIUMIIS).			
#	Column		Non-Null Count	Dtype		
0	Random value	1	4 non-null	int64		
1	Random value	2	4 non-null	int64		
2	Random value	3	4 non-null	int64		
3	Random value	4	4 non-null	int64		
dtypes: int64(4)						

memory usage: 256.0 bytes

Task 5 df.loc[:, ['Random value 2', 'Random value 3']]

	Random value 2	Random value 3	-
0	8	8	
1	5	4	
2	8	0	
3	4	0	

df.iloc[:,1:3]

	Random value 2	Random value	3	H
0	8		8	
1	5		4	
2	8		0	
3	4		0	

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