AI ML Assignment 1

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TASK - 1

```
import numpy as np
import pandas as pd
df=pd.DataFrame(np.random.randint(1,100,size=(5,5)),columns=list('1234
5'))
df
                  5
   1
      2
         3
             4
  83
     45 50 27
                 66
1
      8 49 26
  72
                 28
2
 14
     19 70 3
                 30
3
 59
      42 80 44
                 63
4 57
      31 17 18
                 92
```

TASK - 2

```
df.rename(
columns = {'1': 'Random value is 1',
            '2': 'Random value is 2',
            '3': 'Random value is 3',
            '4':'Random value is 4',
            '5': 'Random value is 5'
           },inplace=True
)
df
   Random value is 1 Random value is 2
                                           Random value is 3 Random
value is 4 \
                                       45
                                                            50
0
                   83
27
1
                   72
                                        8
                                                            49
26
                                       19
2
                   14
                                                            70
3
3
                   59
                                       42
                                                            80
44
4
                   57
                                       31
                                                            17
```

```
Random value is 5
0 66
1 28
2 30
3 63
4 92
```

TASK - 3

<pre>df.describe()</pre>							
count mean std min 25% 50% 75% max	Random value is 1 5.000000 57.000000 26.239284 14.000000 57.000000 72.000000 83.000000	Random value is 2 5.000000 29.000000 15.572412 8.000000 19.000000 31.000000 42.000000 45.000000	Random value is 3 \				
count mean std min 25% 50% 75% max	Random value is 4 5.000000 23.600000 14.909728 3.000000 18.000000 26.000000 27.000000 44.000000	Random value is 5 5.000000 55.800000 26.948098 28.000000 30.000000 63.000000 66.000000 92.000000					

TASK - 4

<pre>df.isnull()</pre>							
	alue is 1	Random value is 2	Random value is 3	Random			
value is 4	\ 	[n].co	Folso.				
0 False	False	False	False				
1	False	False	False				
False	1 4 1 5 0	rutse	rutse				
2	False	False	False				
False							
3	False	False	False				
False	- 1	- 1	- 1				
4	False	False	False				
False							

```
Random value is 5
0
               False
1
               False
2
               False
3
               False
4
               False
df.dtypes
Random value is 1
                     int64
Random value is 2
                     int64
Random value is 3
                     int64
Random value is 4
                     int64
Random value is 5
                     int64
dtype: object
```

TASK - 5

```
for column in ['Random value is 2', 'Random value is 3']:
    col_index=df.columns.get_loc(column)
    col_data=df[column].tolist()
    print(f"Column'{column}'(Index{col_index}):{col_data}")

Column'Random value is 2'(Index1):[45, 8, 19, 42, 31]
Column'Random value is 3'(Index2):[50, 49, 70, 80, 17]
```