#### **ASSIGNMENT-1**

REGISTER NO: 21BEC1803

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	AI ML Assignment 1			
Task - 1	Create a pandas dataframe (DataFrame name as 'df') with numpy random values (4 features and 4 observation)			
Task - 2	Rename the task - 1 'df' dataframe column names to 'Random value 1', 'Random value 2', 'Random value 3' & 'Random value 4'			
Task - 3	Find the descriptive statistics of the 'df' dataframe.			
Task - 4	Check for the null values in 'df' and find the data type of the columns.			
Task - 5	Display the 'Random value 2' & 'Random value 3' columns with location method and index location method.			

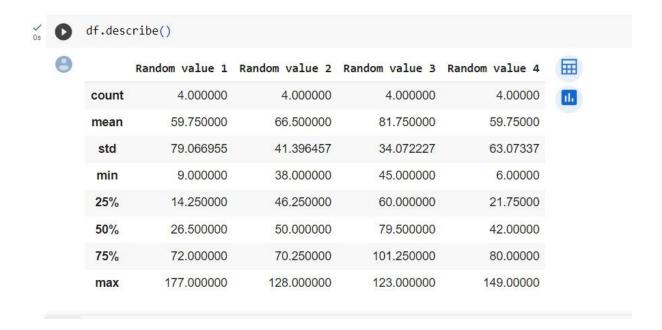
#### TASK 1:

```
[14] ar4=ar.random.randint(100,200,4)
     ar4
     array([122, 108, 129, 119])
[15] df=pd.DataFrame([np1,np2,np3,np4])
     df
                             ==
                         3
           0
                1
                    2
      0
          37
              51
                   45
                        27
          16
              49
                   94
                        6
           9
              38
                 65
                        57
      3 177 128 123 149
```

### **TASK 2:**

16] df.d	df.columns=['Random value 1','Random value 2','Random value 3','Randf				ndom value 4']
	Random value 1	Random value 2	Random value 3	Random value 4	
0	37	51	45	27	
1	16	49	94	6	
2	9	38	65	57	
3	177	128	123	149	

## **TASK 3:**



#### TASK 4:

[18]	<pre>df.isnull().any()</pre>			
	Random	value	1	False
	Random	value	2	False
	Random	value	3	False
	Random dtype:		4	False

### TASK 5 LOC METHOD:

selected\_loc = df.loc[:,['Random value 2','Random value 3']]
selected\_loc

9	Random value 2 Random value 3				
	0	51	45		
	1	49	94		
	2	38	65		
	3	128	123		

# **TASK 5 ILOC METHOD:**

[20] selected\_iloc = df.iloc[:,1:3]
selected\_iloc

	Random value 2	Random value 3	田
0	51	45	
1	49	94	
2	38	65	
3	128	123	