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#ASSIGNMENT1
#Task - 1 Create a pandas dataframe (DataFrame name as 'df') (10 observation and 5 features)
import numpy as np
import pandas as pd
data = {
'Name' : ['Devi','Krishna','Akhil','Aasrith','Shreeya','Rishi','Rishitha','Dev','Priya','Abhigna'],
'Student_ID' : [18,19,78,98,21,56,34,28,22,23],
'University' : ['VIT', 'VIT', 'SRM', 'BHU', 'Manipal', 'VIT', 'VIT', 'SRM', 'BHU', 'Manipal'],
'Age':[18,19,20,21,22,18,19,20,21,np.nan],
'Branch':['BAI','CSE','BPS','BRS','BPS','BAI','CSE','BPS','BMS','BRS'],
}
df=pd.DataFrame(data)
df
```

	Name	Student_ID	University	Age	Branch	$\blacksquare$
0	Devi	18	VIT	18.0	BAI	th
1	Krishna	19	VIT	19.0	CSE	
2	Akhil	78	SRM	20.0	BPS	
3	Aasrith	98	BHU	21.0	BRS	
4	Shreeya	21	Manipal	22.0	BPS	
5	Rishi	56	VIT	18.0	BAI	
6	Rishitha	34	VIT	19.0	CSE	
7	Dev	28	SRM	20.0	BPS	
8	Priya	22	BHU	21.0	BMS	
9	Abhigna	23	Manipal	NaN	BRS	

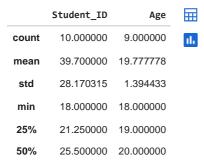
#Task- 2 Check the info of 'df'

df.info()

<class 'pandas.core.frame.DataFrame'> RangeIndex: 10 entries, 0 to 9 Data columns (total 5 columns): # Column Non-Null Count Dtype ---- -------0 Name 10 non-null object 1 Student\_ID 10 non-null int64 2 University 10 non-null object 9 non-null float64 Age 4 Branch 10 non-null obiect dtypes: float64(1), int64(1), object(3) memory usage: 528.0+ bytes

#Task 3- Check the descriptive statistics of 'df'

df.describe()



 $\#Task\ 4-$  check the 4th index observation with 'loc' slicing operator.

## df.loc[4]

Name Shreeya
Student\_ID 21
University Manipal
Age 22.0
Branch BRS
Name: 4, dtype: object

#Task 5 - Check the null values in your 'df'

## df.isnull().sum()

Name 0
Student\_ID 0
University 0
Age 1
Branch 0
dtype: int64

#Filling null values

df.Age=df.Age.fillna(df.Age.mean())

df

	Name	Student_ID	University	Age	Branch	
0	Devi	18	VIT	18.000000	BAI	th
1	Krishna	19	VIT	19.000000	CSE	
2	Akhil	78	SRM	20.000000	BPS	
3	Aasrith	98	BHU	21.000000	BRS	
4	Shreeya	21	Manipal	22.000000	BRS	
5	Rishi	56	VIT	18.000000	BAI	
6	Rishitha	34	VIT	19.000000	CSE	
7	Dev	28	SRM	20.000000	BPS	
8	Priya	22	BHU	21.000000	BMS	
9	Abhigna	23	Manipal	19.777778	BRS	

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