```
import pandas as pd
import numpy as np

# Task 1 (Create a pandas dataframe (DataFrame name as 'df') (10 observation and 5 features))
df = pd.DataFrame([['Lakshi',20,'F',90000,'Vels'],['Swetha',20,'F',75000,'Vels'],['Pavithra',25,'F',80000,'DAV'],
['Raghav',21,'M',np.nan,'PSBB'],['Vaibav',np.nan,'M',58000,'Vels'],['Sara',25,'F',45000,'PSBB'],
['Mukesh',19,'M',60000,'Jutes'],['San',17,'M',16000,'EVPS'],['Sam',22,'M',80000,np.nan],['Mithra',23,'F',45000,'DAV']])
df.columns=['Name','Age','Gender','Salary','School']
df.index=[1,2,3,4,5,6,7,8,9,10]
df
```

	Name	Age	Gender	Salary	School
1	Lakshi	20.0	F	75000.0	Vels
2	Swetha	20.0	F	75000.0	Vels
3	Pavithra	25.0	F	80000.0	DAV
4	Raghav	21.0	M	NaN	PSBB
5	Vaibav	NaN	M	55000.0	Vels
6	Sara	25.0	F	40000.0	PSBB
7	Mukesh	19.0	M	60000.0	Jutes
8	San	17.0	M	65000.0	EVPS
9	Sam	22.0	M	80000.0	NaN
10	Mithra	23.0	F	35000.0	DAV

```
# Task 2 (Check the info of 'df')
df.info()
```

```
<class 'pandas.core.frame.DataFrame'>
Int64Index: 10 entries, 1 to 10
Data columns (total 5 columns):
 #   Column  Non-Null Count  Dtype  
---  ------  --------------  -----  
 0   Name    10 non-null     object 
 1   Age     9 non-null      float64
 2   Gender  10 non-null     object 
 3   Salary  9 non-null      float64
 4   School  9 non-null      object 
dtypes: float64(2), object(3)
memory usage: 480.0+ bytes
```

```
# Task 3 (Check the descriptive statistics of 'df')
df.describe()
```

	Age	Salary
count	9.000000	9.000000
mean	21.333333	62777.777778
std	2.692582	16791.201400
min	17.000000	35000.000000
25%	20.000000	55000.000000
50%	21.000000	65000.000000
75%	23.000000	75000.000000
max	25.000000	80000.000000

```
# Task 4 (check the 4th index observation with 'loc' slicing operator.)
# index = 4 implies that the serial number = 5, since index starts from 0
df.loc[5]
```

```
Name       Vaibav
Age           NaN
Gender          M
```

```
Salary    55000.0
School       Vels
Name: 5, dtype: object
```

```
# Remove nan
df.Age = df.Age.fillna(df.Age.median())
df.Salary = df.Salary.fillna(df.Salary.median())
df.School = df.School.fillna(df.School.mode().iloc[0])
df
```

	Name	Age	Gender	Salary	School
1	Lakshi	20.0	F	75000.0	Vels
2	Swetha	20.0	F	75000.0	Vels
3	Pavithra	25.0	F	80000.0	DAV
4	Raghav	21.0	M	65000.0	PSBB
5	Vaibav	21.0	M	55000.0	Vels
6	Sara	25.0	F	40000.0	PSBB
7	Mukesh	19.0	M	60000.0	Jutes
8	San	17.0	M	65000.0	EVPS
9	Sam	22.0	M	80000.0	Vels
10	Mithra	23.0	F	35000.0	DAV