```
"""
1.create a pandas dataframe(Dataframe name as df)(10
observations[rows]and 5 features[columns])
2.check the info of 'df'
3.check the descriptive statistics of 'df'
4.check the 4th index observation with 'loc' slicing operator
5.check the null values in your 'df'
"""

import numpy as np
import pandas as pd

data = {'name':
['Hemika','Neha','Keertan','Saha','Ram','Jasu','Saha','Sasra','Lekshi'
,'Udvi'],
        'Age':[14,np.nan,14,9,15,7,13,9,7,14],
        'Gender':['F','F','M','F','M','M','F','F','M','F'],
        'School':
['VSN','SVSN','Vignan','KKR','FITZEE','VSN','Gowtham','KKR','Vignan','
SVSN'],
        'Class':[9,6,np.nan,4,10,2,8,4,2,9]}

df = pd.DataFrame(data)
df
```

	name	Age	Gender	School	Class
0	Hemika	14.0	F	VSN	9.0
1	Neha	NaN	F	SVSN	6.0
2	Keertan	14.0	M	Vignan	NaN
3	Saha	9.0	F	KKR	4.0
4	Ram	15.0	M	FITZEE	10.0
5	Jasu	7.0	M	VSN	2.0
6	Saha	13.0	F	Gowtham	8.0
7	Sasra	9.0	F	KKR	4.0
8	Lekshi	7.0	M	Vignan	2.0
9	Udvi	14.0	F	SVSN	9.0

```
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   Age     9 non-null      float64
 2   Gender  10 non-null     object
 3   School  10 non-null     object
 4   Class   9 non-null      float64
dtypes: float64(2), object(3)
memory usage: 528.0+ bytes
```

```
df.describe()
```

```
             Age      Class
count   9.000000   9.000000
mean   11.333333   6.000000
std     3.278719   3.122499
min     7.000000   2.000000
25%     9.000000   4.000000
50%    13.000000   6.000000
75%    14.000000   9.000000
max    15.000000  10.000000
```

```
df.iloc[4]
```

```
name         Ram
Age         15.0
Gender         M
School    FITZEE
Class       10.0
Name: 4, dtype: object
```

```
df.isnull().any()
```

```
name      False
Age        True
Gender    False
School    False
Class      True
dtype: bool
```