df.iloc[4]

```
# Assignment 1
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([['Sow',20,'M',75000,'CIRS'],['Vag',20,'M',75000,'CIRS'],['Pav',25,'M',80000,'GG'],
['Sed',21,'M',np.nan,'TIPS'],['Vib',np.nan,'M',55000,'EVPS'],['Sar',25,'M',40000,'TIPS'],
['Muk',19,'F',60000,'Jutes'],['San',20,'M',65000,'EVPS'],['Sam',20,'M',80000,np.nan],['Ara',20,'F',35000,'EVPS']])
df.columns=['Name','Age','Gender','Salary','School']
df.index=[1,2,3,4,5,6,7,8,9,10]
df
С→
                                             \blacksquare
         Name Age Gender Salary School
      1
         Sow
              20.0
                         M 75000.0
                                      CIRS
                                             ılı.
      2
          Vag 20.0
                         M 75000.0
                                      CIRS
          Pav 25.0
                         M 80000.0
      3
                                       GG
      4
          Sed 21.0
                         M
                              NaN
                                      TIPS
          Vib NaN
                        M 55000.0
                                     EVPS
      5
          Sar
      6
              25.0
                        M 40000.0
                                      TIPS
      7
          Muk 19.0
                         F 60000.0
                                      Jutes
      8
          San 20.0
                         M 65000.0
                                     EVPS
      9
         Sam 20.0
                         M 80000.0
                                      NaN
                         F 35000.0
                                     EVPS
     10
          Ara 20.0
# 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
         Name
                  10 non-null
                                  object
                  9 non-null
                                  float64
         Age
         Gender 10 non-null
                                  object
         Salary
                  9 non-null
                                  float64
         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()
                                    丽
                 Age
                          Salarv
     count
            9.000000
                         9.000000
      mean
            21.111111 62777.77778
            2.260777 16791.201400
      std
      min
           19.000000 35000.000000
      25%
           20 000000 55000 000000
      50%
           20.000000 65000.000000
           21.000000 75000.000000
      75%
      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
                   Vib
    Age
                   NaN
    Gender
               55000.0
    Salary
                  EVPS
    School
    Name: 5, dtype: object
# or we can use iloc
```

```
Vib
     Name
     Age
                     NaN
     Gender
                       M
     Salary
                 55000.0
     School
                    EVPS
     Name: 5, dtype: object
# Task 5 (Check the null values in your 'df')
df.isnull().any()
     Name
                 False
     Age
                 True
     Gender
                 False
     Salary
                 True
     School
                 True
     dtype: bool
# 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])
```

	Name	Age	Gender	Salary	School	
1	Sow	20.0	М	75000.0	CIRS	ılı
2	Vag	20.0	М	75000.0	CIRS	
3	Pav	25.0	М	80000.0	GG	
4	Sed	21.0	М	65000.0	TIPS	
5	Vib	20.0	М	55000.0	EVPS	
6	Sar	25.0	М	40000.0	TIPS	
7	Muk	19.0	F	60000.0	Jutes	
8	San	20.0	М	65000.0	EVPS	
9	Sam	20.0	М	80000.0	EVPS	
10	Ara	20.0	F	35000.0	EVPS	

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✓ 0s completed at 13:16