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▼ VIT VELLORE

```
import pandas as pd
```

TASK 1

```
import numpy as np

df = {'name': ['A', 'B', 'C', 'D', 'E', 'F', 'G', 'H', 'I', 'J'], 'Age': [19, 22, 12, 18, 19, 23, 42, 34, 58, 60], 'Gender': ['M', 'F', 'M', 'M', 'F', 'F', 'M', 'F', 'F', 'M'], 'idnum': [1, 2, 3, 4, 5, 6, 7, 8, 9, 10], 'classnum': [11, 23, 12, 34, 56, 1, 2, 3, 4, 5]}

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

	name	Age	Gender	idnum	classnum
0	A	19	M	1	11
1	B	22	F	2	23
2	C	12	M	3	12
3	D	18	M	4	34
4	E	19	F	5	56
5	F	23	F	6	1
6	G	42	M	7	2
7	H	34	F	8	3
8	I	58	F	9	4
9	J	60	M	10	5

TASK 2

```
df.info
```

```
<bound method DataFrame.info of
0  A  19  M  1  11
1  B  22  F  2  23
2  C  12  M  3  12
3  D  18  M  4  34
4  E  19  F  5  56
5  F  23  F  6  1
6  G  42  M  7  2
7  H  34  F  8  3
8  I  58  F  9  4
9  J  60  M  10 5>
```

TASK 3

```
df.describe
```

```
<bound method NDFrame.describe of
0  A  19  M  1  11
1  B  22  F  2  23
2  C  12  M  3  12
3  D  18  M  4  34
4  E  19  F  5  56
5  F  23  F  6  1
6  G  42  M  7  2
7  H  34  F  8  3
8  I  58  F  9  4
9  J  60  M  10 5>
```

```
df.shape
```

```
(10, 5)
```

```
df.median()
```

```
<ipython-input-19-6d467abf240d>:1: FutureWarning: The default value of numeric_only in DataFrame.median is deprecated. In a future vers
df.median()
Age      22.5
idnum     5.5
classnum  8.0
dtype: float64
```

```
df.mean()
```

```
<ipython-input-20-c61f0c8f89b5>:1: FutureWarning: The default value of numeric_only in DataFrame.mean is deprecated. In a future versio
df.mean()
Age      30.7
idnum     5.5
classnum 15.1
dtype: float64
```

```
df.mode()
```

	name	Age	Gender	idnum	classnum
0	A	19.0	F	1	1
1	B	NaN	M	2	2
2	C	NaN	NaN	3	3
3	D	NaN	NaN	4	4
4	E	NaN	NaN	5	5
5	F	NaN	NaN	6	11
6	G	NaN	NaN	7	12
7	H	NaN	NaN	8	23
8	I	NaN	NaN	9	34
9	J	NaN	NaN	10	56

Task 4

```
df.loc[4]
```

```
name      E
Age       19
Gender     F
idnum      5
classnum   56
Name: 4, dtype: object
```

TASK 5

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

```
name      False
Age       False
Gender     False
idnum      False
classnum   False
dtype: bool
```

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